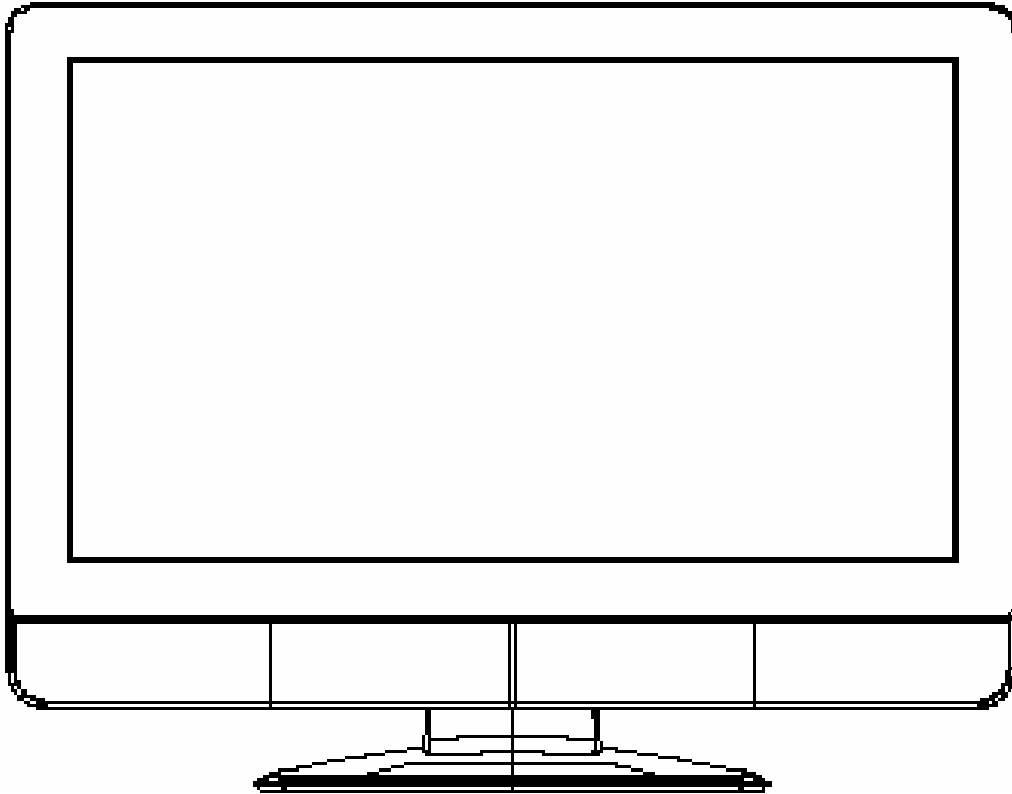


Service Manual



Model #: VIZIO VX32L HDTV10A_LPL
VX32L HDTV10A_AUO VD
VX32L HDTV10A_Samsung

V, Inc

320A Kalmus Drive Costa Mesa, CA 92626

TEL : +714-668-0588 FAX :+714-668-9099

Top Confidential

Table of Contents

| CONTENTS | PAGE |
|----------|------|
|----------|------|

Sections

| | |
|---------------------------------------|-------------|
| 1. Features | 1-1 |
| 2. Specifications | 2-1 |
| 3. On Screen Display | 3-1 |
| 4. Factory Preset Timings | 4-1 |
| 5. Pin Assignment | 5-1 |
| 6. Main Board I/O Connections | 6-1 |
| 7. Theory of Circuit Operation | 7-1 |
| 8. Waveforms | 8-1 |
| 9. Trouble Shooting | 9-1 |
| 10. Block Diagram | 10-1 |
| 11. Spare parts list | 11-1 |
| 12. Complete Parts List | 12-1 |

Appendix

1. Main Board Circuit Diagram
 2. Main Board PCB Layout
 3. Assembly Explosion Drawing
- Block Diagram

COPYRIGHT © 2000 **V, INC.** ALL RIGHTS RESERVED.

IBM and IBM products are registered trademarks of International Business Machines Corporation.

Macintosh and Power Macintosh are registered trademarks of Apple Computer, Inc.

VINC and VINC products are registered trademarks of V, Inc.

VESA, EDID, DPMS and DDC are registered trademarks of Video Electronics Standards Association (VESA).

Energy Star is a registered trademark of the US Environmental Protection Agency (EPA).

No part of this document may be copied, reproduced or transmitted by any means for any purpose without prior written permission from VINC.

FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus VINC Will not be held responsible for the product and its safety.

CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

Chapter 1 Features

1. Built in TV channel selector for TV viewing
2. Simultaneous display of PC and TV images
3. Connectable to PC's analog RGB port
4. Built in S-video, HDTV, composite video, HDMI and TV out
5. Built in auto adjust function for automatic adjustment of screen display
6. Smoothing function enables display of smooth texts and graphics even if image with resolution lower than 1366x768 is magnified
7. Picture In Picture (PIP) function to show TV or VCR/DVD images
8. Power saving to reduce consumption power to less than 3W
9. On Screen Display: user can define display mode (i.e. color, brightness, contrast, sharpness, backlight), sound setting, PIP, TV channel program, aspect and gamma or reset all setting.

Chapter 2 Specification

1. LCD CHARACTERISTICS

LC320W01-SL01

| Item | Specification |
|------------------------|---|
| Active Screen Size | 31.51(800.4mm) inch diagonal |
| Outline Dimension | 760.0mm(H) x 450.0mm(V) x 48.0mm(D) (Typ.) |
| Pixel Pitch | 0.17025mm x 0.51075mm xRGB |
| Pixel Format | 1366 (R,G,Bx3) x 768 |
| Display Color | 16.7 M (8-bit + FRC for R,G,B) |
| Luminance, White | 500 cd/m ² (Typ) |
| Viewing Angle(L/R/U/D) | 89/89/89/89 |
| Power Consumption | 84 Watt (Typ.) (Vdd line +CCFL line)(at 3.5A) |
| Weight | 6900g (Typ) |
| Display Mode | Transmissive mode, normally black |
| Surface Treatment | Hard coating(3H), AG |

2. OPTICAL CHARACTERISTICS

Viewing Angle (CR>10)

Left: 89°typ.

Right: 89°typ.

Top: 89°typ.

Bottom: 89°typ.

3. SIGNAL (Refer to the Timing Chart)

Sync Signal

1) Type: TMDS

2) Input Voltage Level: 100~240 Vac, 50/ 60 Hz

4.Input Connectors

RJ11, D-SUB15PIN (MINI, 3rows), HDMIX2, RCAX2 (component), RCAX2 (AUDIO in), RCAX2 (composite), RCAX2 (AUDIO in), S-Video, Tuner

Output Connectors

Analog audio out (Stereo RCA Jack) , Digital audio out (Optical)

5. POWER SUPPLY

Power Consumption: 180W MAX

Power OFF: to less than 3W MAX

6. Speaker

Output 10W (max) X2

7. ENVIRONMENT

7-1. Operating Temperature: 5c~35c (Ambient)

7-2. Operating Humidity: Ta= 35 °C, 90%RH (Non-condensing)

7-3. Operating Altitude: 0 - 14,000 feet (Non-Operating)

8. DIMENSIONS (Physical dimension)

Width: 797.00 mm.

Depth: 593.00mm

Height: 263.7mm

9. WEIGHT (Physical weight)

a. Net: 15.0+/-0.5kgs

b. Gross: 20+/-0.5kgs

Please pay attention to the followings when you use this TFT LCD module.

9-1. MOUNTING PRECAUTIONS

(1) You must mount a module using holes arranged in four corners or four sides.

(2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.

(3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer.

Transparent protective plate should have sufficient strength in order to resist external force.

(4) You should adopt radiation structure to satisfy the temperature specification.

-
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
 - (6) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment.
Do not touch the surface of polarizer for bare hand or greasy cloth. (Some cosmetics are detrimental to the polarizer.)
 - (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaked with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
 - (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
 - (9) Do not open the case because inside circuits do not have sufficient strength.

9-2. OPERATING PRECAUTIONS

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage :
 $V = \pm 200\text{mV}$ (Over and under shoot voltage)
- (2) Response time depends on the temperature. (In lower temperature, it becomes longer.)
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.) And in lower temperature, response time (required time that brightness is stable after turned on) becomes longer.
- (4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (6) Module has high frequency circuits. System manufacturers shall do sufficient suppression to the electromagnetic interference. Grounding and shielding methods may be important to minimize the interference.

9-3. HANDLING PRECAUTIONS FOR PROTECTION

- (1) The protection film is attached to the bezel with a small masking tape. When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the bezel after the protection film is peeled off.
- (3) You can remove the glue easily. When the glue remains on the bezel surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.

Chapter 3 On Screen Display

Main unit button

Power

MENU

CH ▲

CH ▼

VOL +

VOL -

Input

TV Source

A. PICTURE :

- a. PICTURE MODE (CUSTOM/ STANDARD / MOVIE / GAME)
- b. BACKLIGHT (0~100)
- c. BRIGHTNESS (0~100)
- d. CONTRAST (0~100)
- e. COLOR (0~100)
- f. TINT (-32~32)
- g. SHARPNESS (0~100)
- h. COLOR TEMPERATURE (CUSTOM/COOL/NORMAL/WARM)
- i. ADVANCED VIDEO
 - i-1. DNR(OFF/LOW/MEDIUM/STRONG)
 - i-2. BLACK LEVEL EXTENDER (ON/OFF)
 - i-3. WHITE PEAK LIMITATOR (ON/OFF)
 - i-4 CTI(OFF/LOW/MEDIUM/STRONG)
 - i-5 FLESH TONE (ON/OFF)
 - i-6 ADAPTIVE LUMA (ON/OFF)

B. AUDIO :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (-50~50)
- e. SURROUND (ON/OFF)
- f. SPEAKERS (ON/OFF)

C. TV :

- a. TUNER MODE (ANTENNA/CABLE)
- b. AUTO SEARCH (RUN)
- c. SKIP CHANNEL (TABLE)
- d. TIME ZONE
(HAWALL/EASTTERN/INDIANA/CENTRAL/MOUNTAIN/ARIZONA/PACIFIC/ALA
SKA)
- e. Daylight Saving(ON/OFF)

D. SETUP :

- a. LANGUAGE (ENGLISH/FRENCH/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. ANALOG CC (OFF/CC1/CC2/CC3/CC4)
- d. DIGITAL CC(OFF/SERVICE1/ SERVICE2/ SERVICE3/ SERVICE4/ SERVICE5/
SERVICE6)
- e. DIGITAL CC STYLE
 - e-1. CAPTION STYLE
(AS BROADCASTER/CUSTOM)
 - e-2. FONT SIZE(SMALL/MEDIUM/LARGE)
 - e-3. FONT COLOR
(GREEN/BLUE//RED/CYAN/YELLOW/MAGENTA/BLACK/WHITE)
 - e-4. FONT OPACITY
(SOLID/TRANSLUCENT/TRANSPARENT)
 - e-5. BACKGROUND COLOR
(GREEN/BLUE//RED/CYAN/YELLOW/MAGENTA/BLACK/WHITE)
 - e-6. BACKGROUND OPACITY
(SOLID/TRANSLUCENT/TRANSPARENT)

-
- e-7. WINDOW COLOR
(GREEN/BLUE//RED/CYAN/YELLOW/MAGENTA/BLACK/WHITE)
 - e-8. WINDOW OPATITY
(SOLID/TRANSLUCENT/TRANSPARENT)
 - f. RESET ALL SETTING

E. PARENTAL :

- a. PASSWORD
 - a-1. CHANNEL BLOCK
 - a-2. TV RATING
 - a-3. MOVIE RATING
 - a-4. BLOCK TV UNRATED
 - a-5. ACCESS CODE EDIT

RGB Mode

A. PICTURE ADJUST :

- a. AUTO PICTURE (Run)
- b. BACKLIGHT (0~100)
- c. BRIGHTNESS (0~100)
- d. CONTRAST (0~100)
- e. COLOR TEMPERATURE(CUSTOM, 6500K, 9300K)
- f. H-SIZE (0~255)
- g. H-POSITION (0~100)
- h. V-POSITION (0~100)
- i. FINE TUNE (0~31)

B. AUDIO :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (-50~50)
- e. SURROUND (ON/OFF)
- f. SPEAKERS (ON/OFF)

C. SETUP :

- a. LANGUAGE (ENGLISH/FRENCH/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- RESET ALL SETTING

AV COMPONENT MODE

AV-C 、 AV-S 、 COMPONENT

A. PICTURE :

- a. PICTURE MODE (CUSTOM/ STANDARD / MOVIE / GAME)
- b. BACKLIGHT (0~100)
- c. BRIGHTNESS (0~100)
- d. CONTRAST (0~100)
- e. COLOR (0~100)
- f. TINT (-32~32)
- g. SHARPNESS (0~100)
- h. COLOR TEMPERATURE (CUSTOM/COOL/NORMAL/WARM)
- i. ADVANCED VIDEO
 - i-1. DNR(OFF/LOW/MEDIUM/STRONG)
 - i-2. BLACK LEVEL EXTENDER (ON/OFF)
 - i-3. WHITE PEAK LIMITATOR (ON/OFF)
 - i-4. CTI(OFF/LOW/MEDIUM/STRONG)
 - i-5. FLESH TONE (ON/OFF)
 - i-6. ADAPTIVE LUMA (ON/OFF)

B. AUDIO :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (-50~50)
- e. SURROUND (ON/OFF)
- f. SPEAKERS (ON/OFF)

D. SETUP :

- a. LANGUAGE (ENGLISH/FRENCH/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. RESET ALL SETTING

E. PARENTAL :

- a. PASSWORD
 - a-1. CHANNEL BLOCK
 - a-2. TV RATING
 - a-3. MOVIE RATING
 - a-4. BLOCK TV UNRATED
 - a-5. ACCESS CODE EDIT

HDMI MODE :

A. PICTURE :

- a. PICTURE MODE (CUSTOM/ STANDARD / MOVIE / GAME)
- b. BACKLIGHT (0~100)
- c. BRIGHTNESS (0~100)
- d. CONTRAST (0~100)
- e. COLOR (0~100)
- f. TINT (-32~32)
- g. SHARPNESS (0~100)
- h. COLOR TEMPERATURE (CUSTOM/COOL/NORMAL/WARM)
- i. ADVANCED VIDEO
 - i-1. DNR(OFF/LOW/MEDIUM/STRONG)
 - i-2. BLACK LEVEL EXTENDER (ON/OFF)
 - i-3. WHITE PEAK LIMITATOR (ON/OFF)
 - i-4 CTI(OFF/LOW/MEDIUM/STRONG)
 - i-5 FLESH TONE (ON/OFF)
 - i-6 ADAPTIVE LUMA (ON/OFF)

B. AUDIO :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (-50~50)
- e. SURROUND (ON/OFF)
- f. SPEAKERS (ON/OFF)

C. SETUP :

- a. LANGUAGE (ENGLISH/FRENCH/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)

RESET ALL SETTING

Chapter4 Factory preset timings

This timing chart is already preset for the TFT LCD analog & digital display monitors.

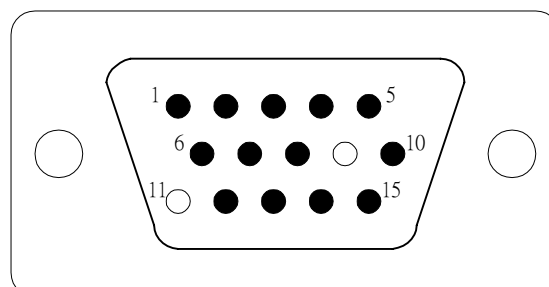
| Resolution | Refresh rate | Horizontal Frequency | Vertical Frequency | Horizontal Polarity | Vertical Polarity | Pixel Rate |
|------------|--------------|----------------------|--------------------|---------------------|-------------------|------------|
| 640x480 | 60Hz | 31.5kHz | 59.94Hz | N | N | 25.175 |
| 640x480 | 75Hz | 37.5kHz | 75.00Hz | N | N | 31.500 |
| 800X600 | 60Hz | 37.9kHz | 60.317Hz | P | P | 40.000 |
| 800x600 | 75Hz | 46.9kHz | 75.00Hz | P | P | 49.500 |
| 800X600 | 85Hz | 53.7kHz | 85.06Hz | P | P | 56.250 |
| 1024x768 | 60Hz | 48.4kHz | 60.01Hz | N | N | 65.000 |
| 1024X768 | 75Hz | 60.0kHz | 75.03Hz | P | P | 78.750 |
| 720x400 | 70Hz | 31.46kHz | 70.08Hz | N | P | 28.320 |
| 1366X768 | 60 | 47.7KHZ | 60.00HZ | P | N | 85.500 |

Remark: P: positive N: negative

Chapter5 Pin Assignment

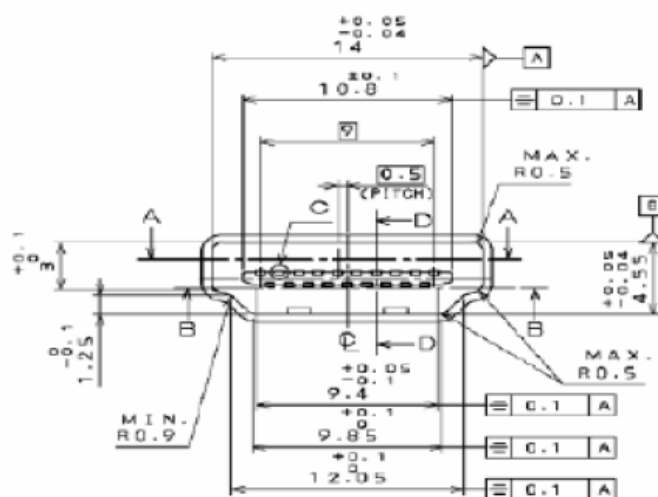
The TFT LCD analog display monitors use a 15 Pin Mini D-Sub connector as video input source.

| Pin | Description |
|-----|-------------------------|
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | Ground |
| 5 | Ground |
| 6 | R-Ground |
| 7 | G-Ground |
| 8 | B-Ground |
| 9 | +5V for DDC |
| 10 | Ground |
| 11 | No Connection |
| 12 | (SDA) |
| 13 | H-Sync (Composite Sync) |
| 14 | V-Sync |
| 15 | (SCL) |

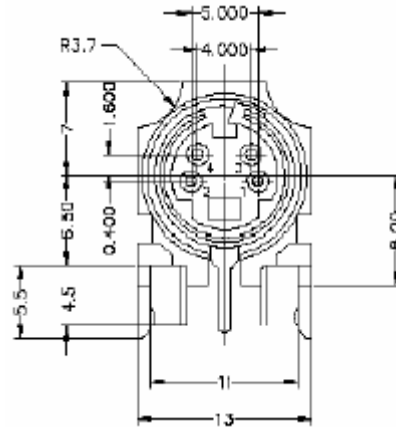


HDMI CONNECT PIN ASSIGNMENT

| PIN | SIGNAL ASSIGNMENT |
|-----|--------------------------|
| 1 | TMDS Data2+ |
| 2 | TMDS Data2 Shield |
| 3 | TMDS Data2- |
| 4 | TMDS Data1+ |
| 5 | TMDS Data1 Shield |
| 6 | TMDS Data1- |
| 7 | TMDS Data0+ |
| 8 | TMDS Data0 Shield |
| 9 | TMDS Data0- |
| 10 | TMDS Clock+ |
| 11 | TMDS Clock Shield |
| 12 | TMDS Clock- |
| 13 | CEC |
| 14 | Reserved (N.C on device) |
| 15 | SCL |
| 16 | SDA |
| 17 | DDC/CEC Ground |
| 18 | +5V Power |
| 19 | Hot Plug Detect |



a. Pin Assignment



- b. Signal Level Video (Y): Analog 0.1Vp-p/75Ω
Video (C): Analog 0.286p-p/75
Sync (H+V): 0.3V below Video (Y)
- c. Frequency H: 15.734KHz V: 60Hz (NTSC)
Signal Level Video (Y) : Analog 0.1Vp-p/75Ω
Video (C) : Analog 0.286p-p/75Ω
Sync (H+V): 0.3V below Video (Y)
Frequency H: 15.734Khz V: 60HZ (NTSC)

F-Type TV RF connector

- a. Signal Level 60dBμV typical
- b. System NTSC
- c. Frequency 55~801MHz (NTSC)

PC connector 15 pin male D-sub connector

- a. Pin Assignment Refer to Section 2.3.10
- b. Signal Level Video (R, G, B): Analog 0.7Vp-p/75Ω
Sync (H, V): TTL level

RGB Signal:

- a. Sync Type TTL (Separate / Composite) or Sync. On Green
- b. Sync polarity Positive or Negative
- c. Video Amplitude RGB: 0.7Vp-p
- d. Frequency H: support to 30K~70KHz
V: support to 50~85Hz
Pixel Clock: support to 110MHz

HDMI Signal (HDMI):

- a. Pin Assignment Refer to HDNI Pin Assignment
- b. Type A
- c. Polarity Positive or Negative
- d. Frequency

H: 15.734KHz V: 60Hz (NTSC-480i)

H: 31KHz V: 60Hz (NTSC-480p)

H: 45KHz V: 60Hz (NTSC-720p)

H: 33KHz V: 60Hz (NTSC-1080i)

Component signal

Component

- a. Frequency H: 15.734KHz V: 60Hz (NTSC-480i)
 - H: 31KHz V: 60Hz (NTSC-480p)
 - H: 45KHz V: 60Hz (NTSC-720p)
 - H: 33KHz V: 60Hz (NTSC-1080i)
- b. Signal level Y: 1Vp-p Pb: ± 0.350 Vp-p Pr: ± 0.350 Vp-p
- c. Impedance 75 Ω

Chapter 6 Main Board I/o Connections

J2 CONNECTION (TOP→BOTTOM)

| Pin | Description |
|-----|-------------|
| 1 | “LED WHITE” |
| 2 | “LED AMBER” |
| 3 | “+5V” |
| 4 | “+5V” |
| 5 | “IR” |
| 6 | “GND” |
| 7 | “GND” |
| 8 | “ADIN1” |
| 9 | “ADIN2” |
| 10 | “+3.3V” |

J1 CONNECTION (TOP→BOTTOM)

| Pin | Description |
|-----|-------------|
| 1 | “POWRSW” |
| 2 | “+12V” |
| 3 | “+12V” |
| 4 | “+12V” |
| 5 | “+12V” |
| 6 | “GND” |
| 7 | “GND” |
| 8 | “GND” |
| 9 | “+5V” |
| 10 | “+5V” |
| 11 | “+5V” |
| 12 | “PWM” |
| 13 | “BL ON/OFF” |

Chapter 7 Theory of Circuit Operation

The operation of D-SUB 15pin route

The D-SUB 15pin is input analog signal to the MT5372 transfer A/D converter then generates the vertical and horizontal timing signals for display device.

The operation of HDMII CON route

.Then transfer to the MT5372, the MT5372 generates the vertical and horizontal timing signals for display device.

The operation of HDTV & Component route

HDTV & Component signal is input to the MT5372 then MT5372 generates the vertical and horizontal timing signals for display device.

The operation of Video & S-Video route

The Video and S-Video signal is transmission signal to the MT5372 then MT5372 generates the vertical and horizontal timing signals for display device.

The operation of TV route

TV signal is processes to the tuner and output to MT5372 then MT5372 generates the vertical and horizontal timing signals for display device. Audio is processes to the tuner output to SIF circuit and output to MT5372. Then MT5372 process to wm8776 and output to TDA8946AJ transfer to speaker

The operation of DTV route

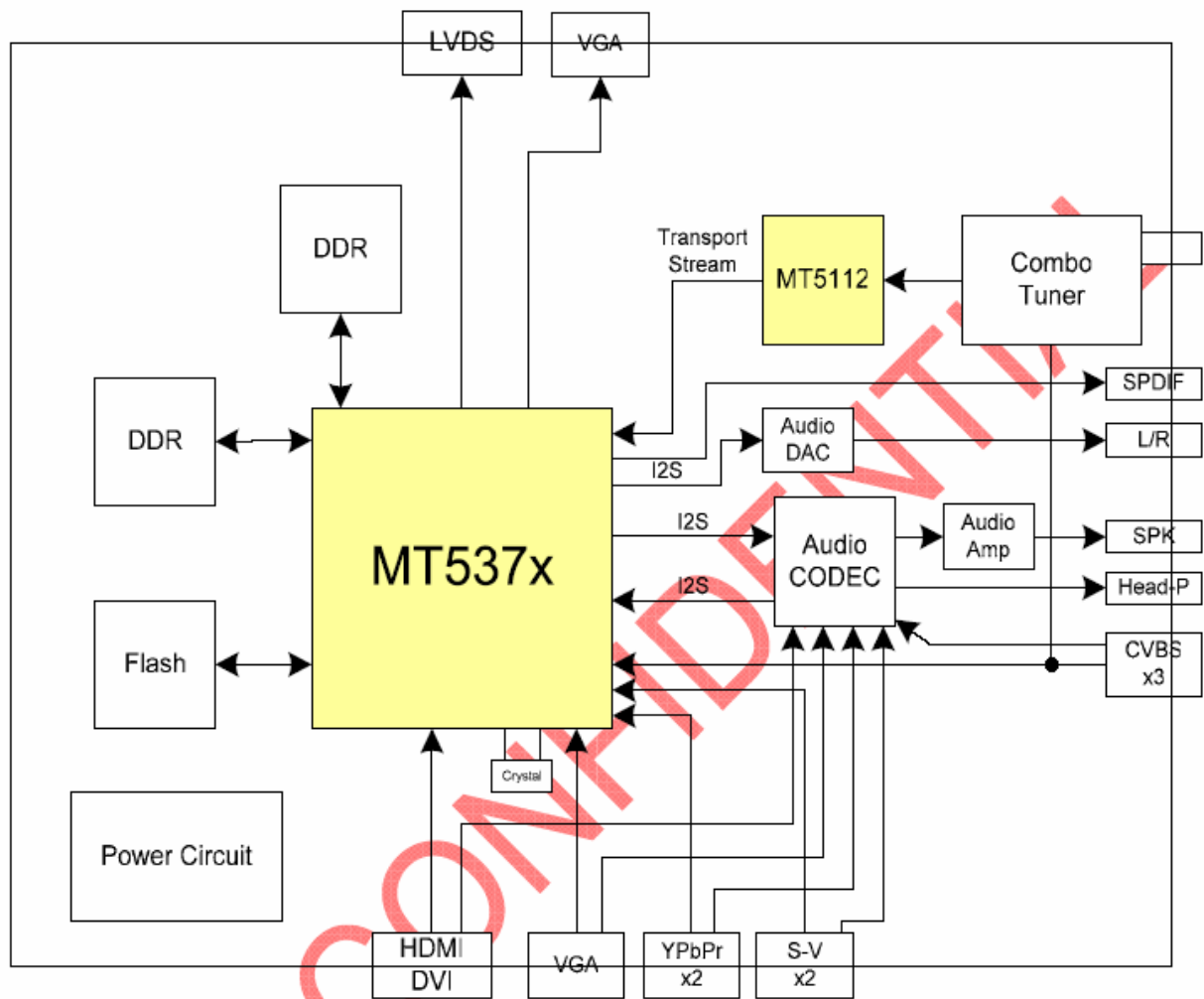
DTV signal is processes to the tuner and transmission to MT5112 and output signal to MT5372 generates the vertical and horizontal timing signals for display device.

The operation of keypad

There are 7 keys to control and select the function of VX32L and also has one LED to indicate the status of operation. They are "Power, ▼▲, + -, Input, OSD".

MT5372 Application

MT5372 is a highly integrated video and audio single chip processor for emerging HDTV-Ready LCD TV. It includes one 3D/2D TV Decoder recovering the best image from CVBS, and in addition, its analog input also support popular S-Video, Component, VGA video source. On-chip advanced motion adaptive de-interlacer (MDDitm) converts accordingly the interlace video into smooth non-flicking progressive motion pictures. With on-chip advanced 2D Graphic processor, MT5372 provides customers with high quality UI adding significant end product value. Flexible scalar provides wide adoption to various LCD panel for different video sources. Its on-chip audio processor decodes whole world standard audio signals from tuner with lip sync control, delivering high quality post-processed sound effect to customers. On-chip microprocessor and reference FW reduces the system BOM and shortens the schedule of UI design by high-level C program. With truly SOC design, MT5372 offers our customers the real cost-effective high performance HDTV-ready solution.



1. Video input

a. Input Multiplexing

- 1.component X2
- 2.composite X2
- 3.s-videoX1
- 4.HDMI X1
- 5.VGA X1
- 6.RF&DTV X1

b. Input formats:

- 1.support HDTV 480i/480p/720p/1080p
- 2.support Y/C signal 1VP-P/75Ω
- 3.support Y/C signal 1VP-P/75Ω
- 4.support 480i/408p/720p/1080i/1080p
- 5.support VGA input up to 1366x168@60HZ
- 6.support RF NTSC system Frequency 55~801MHZ;DTV 480i/480p/720p/1080p

2. Decoder

TVD

- 1.Single 2nd generation TV decoder
- 2.Automatic TV standard detection supporting NTSC, NTSC-4.43,
- 3.Enhanced 2nd generation NTSC Motion Adaptive 3D comb filter
- 4.Motion Adaptive 3D Noise Reduction
- 5.Embedded VBI decoder for Closed-Caption/XDS/ Teletext/WSS/VPS
- 6.Supporting Macro vision detection

YPbPr

- 1.Supporting HDTV 480i/480p/576i/576p/720p/1080i input
- 2.Smart detection on Scart function for European region

VGA

- 1.Supporting various VGA input timings up to SXGA (1280x1024@75Hz).
- 2.Supporting Separate/Composite/SOG sync types

Digital port

- 1.1 digital port supporting DVI 24-bit RGB or CCIR-656/601 digital video input format
- 2.1 additional 8 bit digital port for ITU656 video format

VBI

- 1. Dual VBI decoders for the application of V-Chip/Closed-Caption/XDS/ Teletext/WSS/VPS
- 2. Supporting external VBI decoder by YPrPb input
- 3. VBI decoder up to 1000 pages Teletext.

3. Support Formats:

Support NTSC, NTSC-4.43

Automatic Luma / Chroma gain control

Automatic TV standard detection

NTSC Motion Adaptive 3D comb filter

Motion adaptive 3D Noise Reduction

VBI decoder for closed-caption/XDS/Teletext/WSS/VPS

Macro vision detection

4. 2D-Graphic/OSD processor

- Embedded two backend RGB domain OSD planes and one YUV domain OSD plane. to support Main/PIP Teletext/Close-caption functions together with setup menu
- 1. Supporting alpha blending among these two planes and video
 - 2. Supporting Text/Bitmap decoder
 - 3. Supporting line/rectangle/gradient fill
 - 4. Supporting bitblt
 - 5. Supporting color Key function
 - 6. Supporting Clip Mask
 - 7. 65535/256/16/4/2-color bitmap format OSD,
 - 8. Automatic vertical scrolling of OSD image
 - 9. Supporting OSD mirror and upside down

5. Microprocessor interface

When power is supplied and power key is pressed then the rest circuit lets Reset to low state that will reset the MT5372 to initial state. After that the Reset will transits to high state and the MT5372 start to work that microprocessor executes the programs and configures the internal registers. The execution speed of CPU is 162 MHz.

PIP/POP HARDWARE LIMITATION:

| | AV1(S) | ATV | YPbPr | RGB | HDMI1 | DTV |
|-------|--------|-----|-------|-----|-------|-----|
| AV1/2 | | | v | v | v | v |
| ATV | | | v | v | v | |
| YPbPr | v | v | | | v | v |
| RGB | v | v | | | v | v |
| HDMI1 | v | v | v | v | | v |
| DTV | v | | v | v | v | |

6. Video processor

1.Color Management

Fully 10-bit processing to enhance the video quality

Advanced flesh tone and multiple-color enhancement. (For skin, sky, and grass...)

Gamma/anti-Gamma correction

Advanced Color Transient Improvement (CTI)

Saturation/hue adjustment

2.Contrast/Brightness/Sharpness Management

Sharpness and DLTI/DCTI

Brightness and contrast adjustment

Black level extender

White peak level limiter

Adaptive Luma/Chroma management

3.De-interlacing

2nd generation advanced Motion adaptive de-interlacing

Automatic detect film or video source

3:2/2:2 pull down source detection

Main/PIP 2 independent de-interlacing processor

4. Scaling

2nd generation high resolution arbitrary ratio vertical/horizontal scaling of video, from 1/32X to 32X

Advanced linear and non-linear Panorama scaling

Programmable Zoom viewer

Picture-in-Picture (PIP)

Picture-Out-Picture (POP)

5. Display

Advanced dithering processing for LCD display with 6/8/10 bit output

10bit gamma correction

Supporting alpha blending for Video and two OSD planes

Frame rate conversion

6. Seamless performance comparing demonstration function

Support Left/Right video processing comparing function without additional resources (DRAM...) for customers' demonstration

All the video functions (De-interlace/3D comb/NR/Flesh tone/CTI) can be included

7. DRAM Usage

1. For features of 5372, Dual for enhance features support, and single 8x16 DDR for simple function support Lists are the comparison chart between function support lists of (2xDDR) and (1xDDR)

| | DDR*1(16MB) | DDR*2(32MB) |
|---------|-------------|-----------------------------------|
| NR | Y | Y |
| 3D-Comb | Y | Y |
| MDDi | *480i/576i | 1080i |
| PIP | *Y | Y |
| POP | *Y | Y |
| Display | 1024x768 | 1366x768 1280x1024 1440x900 |

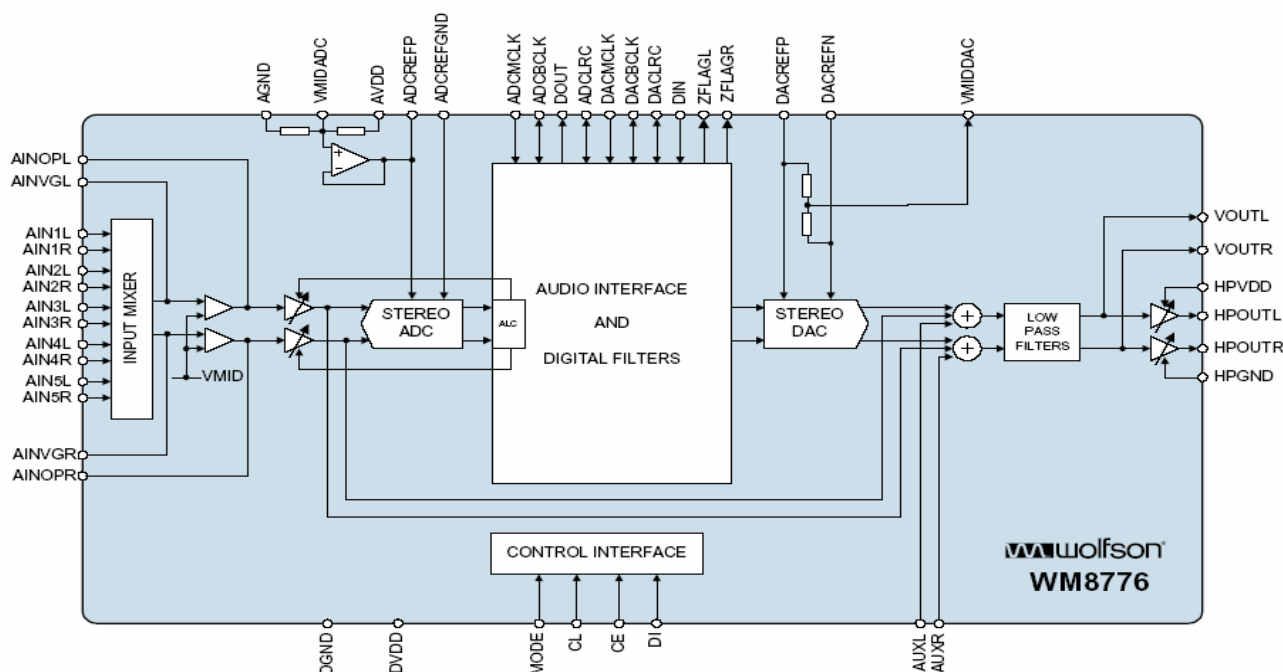
2. For single DDR, 5372 only support 1080i bob mode de-interlacing. (Non-3D de interlace)

3. With single DDR, it is suggested not to support PIP/POP features. Due to DDR Bandwidth limitation on PIP when single DDR.

WM8776 Application

The WM8776 is a high performance, stereo audio codec with five channel input selector. The WM8776 is ideal for surround sound processing applications for home hi-fi, DVD-RW and other audiovisual equipment. Each ADC channel has programmable gain control with automatic level control. Digital audio output word lengths from 16-32 bits and sampling rates from 32kHz to 96kHz are supported. The DAC has an input mixer allowing an external analogue signal to be mixed with the DAC signal. There are also Headphone and line outputs, with control for the headphone. The WM8776 supports fully independent sample rates for the ADC and DAC. The audio data interface supports I2S, left justified, right justified and DSP formats.

BLOCK DIAGRAM



1. Audio sample rate

The master clock for WM8776 supports DAC and ADC audio sampling rates 256fs to 768fs, where fs is the audio sample frequency (DACLRC or ADCLRC) typically 32kHz, 44.1kHz, 48kHz or 96kHz (the DAC also supports operation at 128fs and 192fs and 192kHz sample rate). The master clock is used to operate the digital filters and the noise shaping circuits.

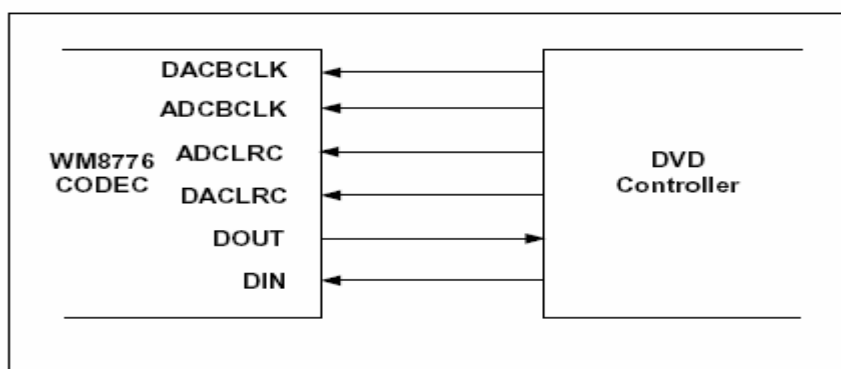
In slave mode the WM8776 has a master detection circuit that automatically determines the relationship between the master clock frequency and the sampling rate (to within +/- 32 system clocks). If there is a greater than 32 clocks error the interface is disabled and ADCLRC/DACLRC for optimal performance, although the WM8776 is tolerant of phase variations or jitter on this clock. Table shows the typical master clock frequency inputs for the WM8776

| SAMPLING RATE (DACLRC/ ADCLRC) | System Clock Frequency (MHz) | | | | | |
|--------------------------------------|------------------------------|--------|-------------|-------------|-------------|-------------|
| | 128fs | 192fs | 256fs | 384fs | 512fs | 768fs |
| | DAC ONLY | | | | | |
| 32kHz | 4.096 | 6.144 | 8.192 | 12.288 | 16.384 | 24.576 |
| 44.1kHz | 5.6448 | 8.467 | 11.2896 | 16.9340 | 22.5792 | 33.8688 |
| 48kHz | 6.144 | 9.216 | 12.288 | 18.432 | 24.576 | 36.864 |
| 96kHz | 12.288 | 18.432 | 24.576 | 36.864 | Unavailable | Unavailable |
| 192kHz | 24.576 | 36.864 | Unavailable | Unavailable | Unavailable | Unavailable |

2. DIGITAL AUDIO INTERFACE

1. Slave mode

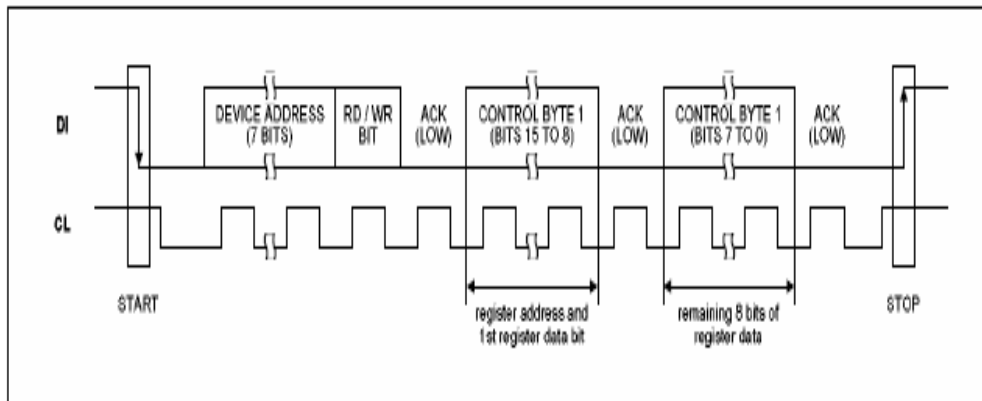
The audio interfaces operations in either slave mode selectable using the MS control bit. In slave mode DIN is always an input to the WM8776 and DOUT is always an output. The default is Slave mode. In slave mode (ms=0) ADCLRC, DACLRC, ADCBCLK, DACBCLK are input to the WM8776 DIN and DACLRC are sampled by the WM8776 on the rising edge of DACBCLK; ADCLRC is sampled on the rising edge of ADCBCLK. ADC data is output on DOUT and changes on the falling edge of ADCBCLK. By setting control bit BCLKINV the polarity of ADCBCLK and DACBCLK may be reversed so that DIN and DACLRC are sample on the falling edge of DACBCLK, ADCLRC is sampled on the falling edge of ADCBCLK and DOUT changes on the rising of ADCBCLK Slave mode as shown in the following figure.



2. 2 Wire serial control mode

The wm8776 supports software control via a 2-wire serial bus. Many devices can be controlled by the same bus, and each device has a unique 7-bit address (this is not the same as the 7-bit address of each register in the wm8776). The wm8776 operates as a slave device only.

2-wire serial interface as shown in the following figure.



The wm8776 has two possible device addresses, which can be selected using the CE pin
In the VX32L LCD TV CE pin is High (device address is 36h)

| CE STATE | DEVICE ADDRESS |
|----------|-------------------|
| Low | 0011010 (0 x 34h) |
| High | 0011011 (0 x 36h) |

In the VX32L wm8776 has 2-wire interface

| MODE | Control Mode |
|------|------------------|
| 0 | 2 wire interface |
| 1 | 3 wire interface |

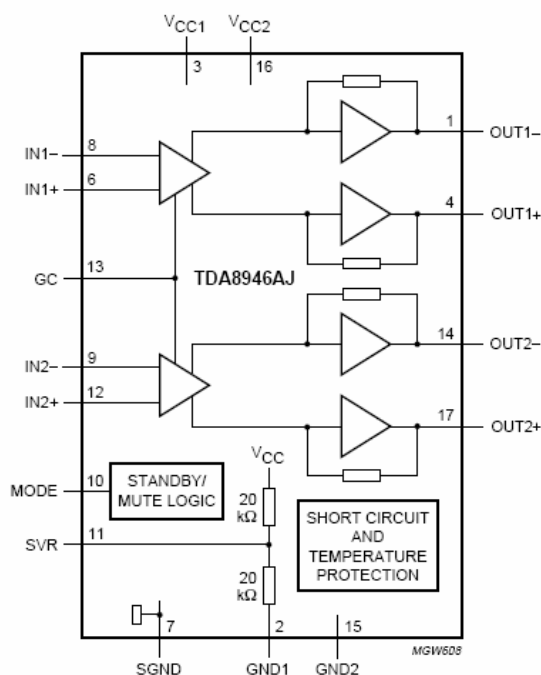
3. HDCP Decryption

HDCP decryption contains all necessary logic to decrypt the incoming audio and video data. The decryption process is entirely controlled by the host microprocessor through a set sequence of register reads and wires through the DDC channel. Pre-programmed HDCP keys and key Selection Vector are used in the decryption process. A resulting calculated to an XOR mask during each clock cycle to decrypt the audio/video data in sync with the host.

TDA8946 Application

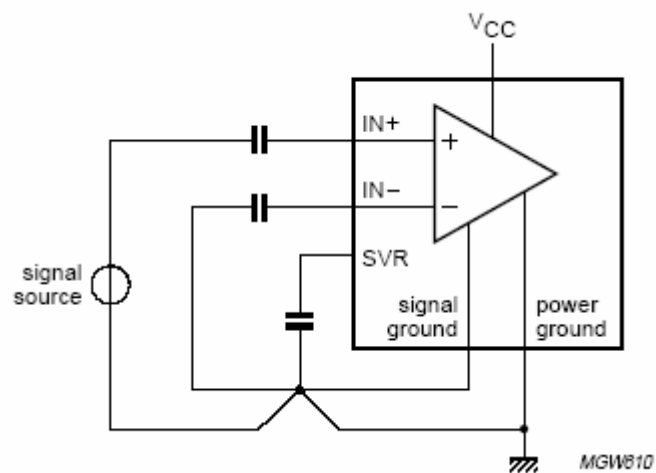
In VX32L TV the TDA8946AJ is a dual-channel audio power amplifier with DC gain control. It has an output power of 2 . 10 W at an 8 . load and a 12 V supply.

Block diagram



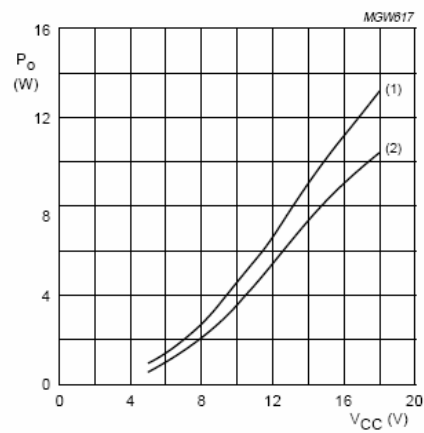
1. Input configuration

The TDA8946AJ inputs can be driven symmetrical (floating) as well as asymmetrical. In the asymmetrical mode one input pin is connected via a capacitor to the signal source and the other input is connected to the signal ground. The signal ground should be as close as possible to the SVR (electrolytic) capacitor ground. Note that the DC level of the input pins is half of the supply voltage VCC, so coupling capacitors for both pins are necessary



2. Output power measurement

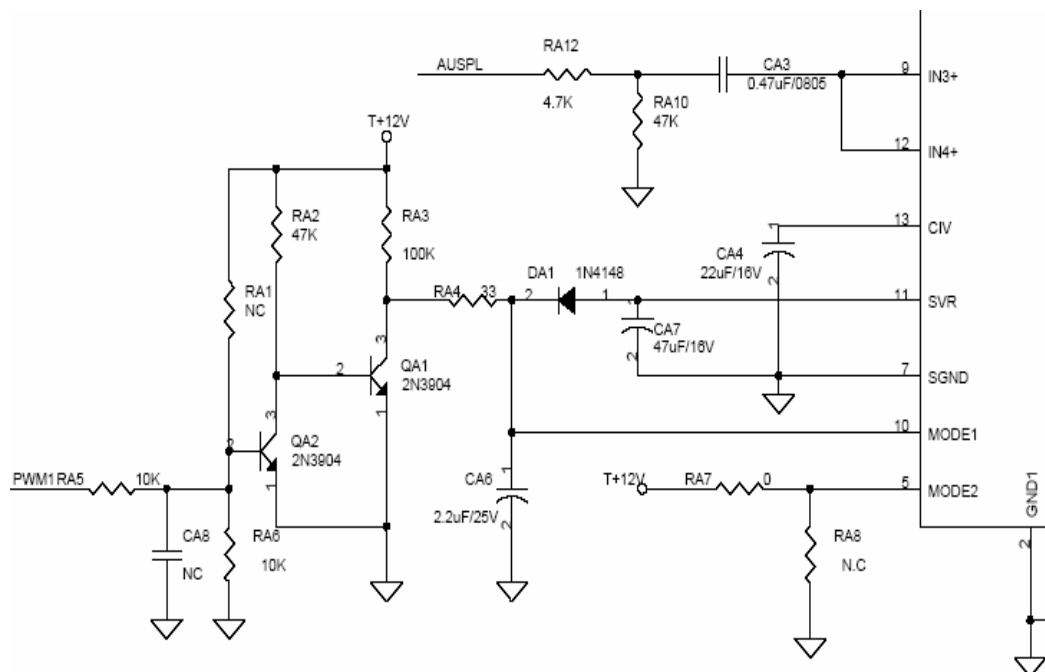
The output power as a function of the supply voltage is measured on the output pins at THD = 10%, in the VX32L LCD TV $V_{CC}=12V$ so we can see as shown in the following figure output about 7W.



$R_L = 8 \Omega$

(1) THD = 10%

(2) THD = 1%



3. Mode selection

In the VX32L LCD TV TDA8946AJ has two functional modes, which can be selected by applying the proper DC voltage to pin MODE.

1. Mute — In this mode the amplifier is DC-biased but not operational (no audio output).

This allows the input coupling capacitors to be charged to avoid pop-noise. The device is in mute mode when $3.5\text{ V} < V_{\text{MODE}} < (V_{\text{CC}} - 1.5\text{ V})$.

2. Operating — In this mode the amplifier is operating normally. The operating mode is activated at $V_{\text{MODE}} < 1.0\text{V}$.

General Feature List :

1 . Host CPU:

1. ARM 926EJ
2. 16K I-Cache and 16K D-Cache
3. 8K Data TCM and 8K instruction
4. JTAG ICE interface
5. Watch Dog timers

2 . Transport Demuxer :

1. Support 3 independent transport stream inputs
2. Support serial/parallel interface for each transport stream input
3. Support ATSC , DVB , and MPEG2 transport stream inputs.
4. Programmable sync detection.
5. Support DES/3-DES De-scramble.
6. 96 PID filter and 128 section filters.
7. Support TS recording via IEEE1394 interface.

3 . MPEG2 Decoder :

1. Support dual MPEG-2 HD decoder or up to 8 SD decoder.
2. Complaint to [MP@ML](#) , [MP@HL](#) and MPEG-1 video standards.

4 . JPEG Decoder :

1. Decode Base-line or progressive JPEG file.

5 . 2D Graphics :

1. Support multiple color modes.
2. Point , horizontal/vertical line primitive drawing.
3. Rectangle fill and gradient fill functions.
4. Bitblt with transparent , alpha blending , alpha composition and stretch.
5. Font rendering by color expansion.
6. Support clip masks.
7. YCrCb to RGB color space transfer.

6 . OSD Display :

1. 3 linking list OSDs with multiple color mode.
2. OSD scaling with arbitrary ratio from 1/2x to 2x.
3. Square size , 32x32 or 64x64 pixel , hardware cursor.

7 . Video Processing :

1. Advanced Motion adaptive de-interlace on SDTV resolution.
2. Support clip
3. 3:2/2:2 pull down source detection.
4. Arbitrary ratio vertical/horizontal scaling of video , from 1/15X to 16X.
5. Support Edge preserve.
6. Support horizontal edge enhancement.
7. Support Quad-Picture.

8 . Main Display :

1. Mixing two video and three OSD and hardware cursor.
2. Contrast/Brightness adjustment.
3. Gamma correction.
4. Picture-in-Picture(PIP).
5. Picture-Out-Picture(POP).
6. 480i/576i/480p/576p/720p/1080i output

9 . Auxiliary Display :

1. Mixing one video and one OSD.
2. 480i/576i output.

10 . TV Encoder :

1. Support NTSC M/N , PAL M/N/B/D/G/H/I
2. Macrovision Rev 7.1.L1
3. CGMS/WSS.
4. Closed Captioning.
5. Six 12-bit video DACs for CVBS , S-video or RGB/YPbPr output.

11 . Digital Video Interface :

1. Support SAV/EAV.
2. Support 8/16 for SD/HD digital video input.
3. Support 8/16/24 bits digital output for main display.
4. Support 8 bits digital output for aux display.

12 . DRAM Controller :

1. Support 64Mb to 1Gb DDR DRAM devices.
2. Configurable 32/64 bit data bus interface.
3. Support DDR266 , DDR333 , DDR400 , JEDEC specification compliant SDRAM.

13 . Peripheral Bus Interface :

1. Support NOR/NAND flash.
2. Support CableCard host control bus.

14 . Audio :

1. Support Dolby Digital AC-3 decoding.
2. MPEG-1 layer I/II , MP3 decoding.
3. Dolby prologic II.
4. Main audio output : 5.1ch + 2ch (down mix)
5. Auxiliary audio output : 2ch.
6. Pink noise and white noise generator.
7. Equalizer.
8. Bass management.
9. 3D surround processing include virtual surround.
10. Audio and video lip synchronization.
11. Support reverberation.
12. SPDIF out.
13. I2S I/F.

15 . Peripherals :

1. Three UARTs with Tx and Rx FIFO , two of them have hardware flow control.
2. Two serial interfaces , one is master only the other can be set to master mode or slave mode.
3. Two PWMs.
4. IR blaster and receiver.
5. IEEE1394 link controller.
6. IDE bus : ATA/ATAPI7 UDMA mode 5 , 100MB/s.
7. Real-time clock and watchdog controller.
8. Memory card I/F : MS/MS-pro ,SD ,CF ,and MMC
9. PCMCIA/POD/CI interface

16 . IC Outline :

1. 471 Pin BGA Package.
2. 3.3V/1.2V dual Voltage.

MX29LV320BTTC (Flash) Application :

The MX29LV320AT/B is a 32-mega bit Flash memory organized as 4M bytes of 8 bits and 2M words of 16 bits. MXIC's Flash memories offer the most cost-effective and reliable read/write non-volatile random access memory.

The MX29LV320AT/B is packaged in 48-pin TSOP and 48-ball CSP. It is designed to be reprogrammed and erased in system or in standard EPROM programmers. The standard MX29LV320AT/B offers access time as fast as 70ns, allowing operation of high-speed microprocessors without wait states. To eliminate bus contention, the MX29LV320AT/B has separate chip enable (CE) and output enable (OE) controls.

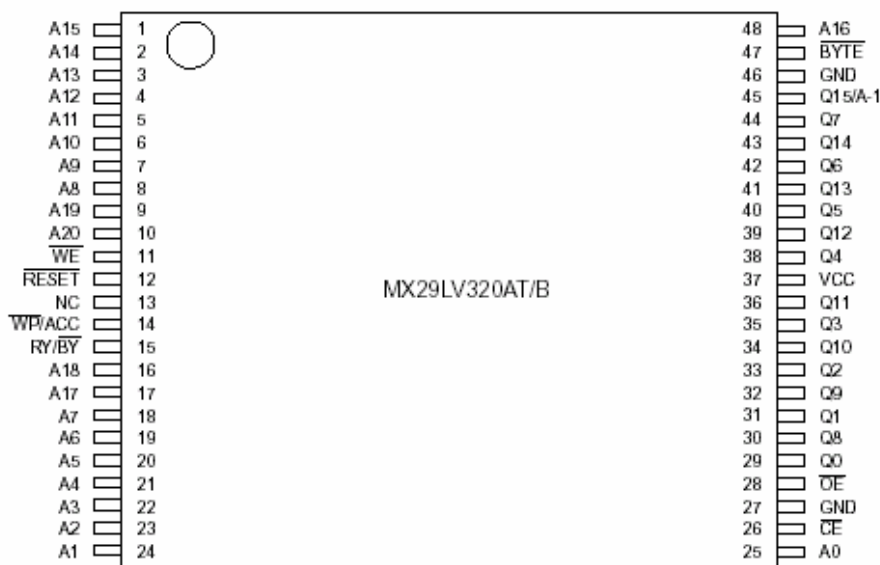
MXIC's Flash memories augment EPROM functionality with in-circuit electrical erasure and programming. The MX29LV320AT/B uses a command register to manage this functionality. MXIC Flash technology reliably stores memory contents even after 100,000 erase and program cycles. The MXIC cell is designed to optimize the erase and program mechanisms. In addition, the combination of advanced tunnel oxide processing and low internal electric fields for erase and programming operations produces reliable cycling.

The MX29LV320AT/B uses a 2.7V to 3.6V VCC supply to perform the High Reliability Erase and auto Program/Erase algorithms.

The highest degree of latch-up protection is achieved with MXIC's proprietary non-epi process. Latch-up protection is proved for stresses up to 100 milliamperes on address and data pin from -1V to VCC + 1V.

PIN CONFIGURATION

48 TSOP



| SYMBOL | PIN NAME |
|---------|--|
| A0~A20 | Address Input |
| Q0~Q14 | 15 Data Inputs/Outputs |
| Q15/A-1 | Q15(Data Input/Output, word mode) A-1(LSB Address Input, byte mode) |
| CE | Chip Enable Input |
| WE | Write Enable Input |
| OE | Output Enable Input |
| BYTE | Word/Byte Selection Input |
| RESET | Hardware Reset Pin, Active Low |
| RY/BY | Read/Busy Output |
| VCC | 3.0 volt-only single power supply |
| WP/ACC | Hardware Write Protect/Acceleration Pin |
| GND | Device Ground |
| NC | Pin Not Connected Internally |

Block diagram of the 74VHC04-10 10-bit parallel-to-serial shift register. The diagram shows a rectangular block with multiple inputs on the left and one output on the right. Inputs include a 21-bit data bus (A0-A20) with a slash and a triangle, and control signals: CE, OE, WE, RESET, BYTE, and WP/ACC. The output is Q0-Q15 (A-1) with a slash and a triangle, and a 16 or 8-bit data bus. A signal RY/BY is also shown.

The block diagram illustrates the internal architecture of the MX29LV320AT/B Flash Array. The central component is the **MX29LV320AT/B FLASH ARRAY**, which is divided into an **X-DECODER** and a **Y-PASS GATE**. The **X-DECODER** receives address signals from the **ADDRESS LATCH AND BUFFER** and provides output to the **SENSE AMPLIFIER**. The **Y-PASS GATE** receives signals from the **SENSE AMPLIFIER** and the **PGM DATA HV** block. The **SENSE AMPLIFIER** outputs data to the **I/O BUFFER**. The **PGM DATA HV** block receives data from the **PROGRAM DATA LATCH** and provides high voltage to the **Y-PASS GATE**. The **PROGRAM DATA LATCH** is connected to the **I/O BUFFER** and the **WRITE STATE MACHINE (WSM)**. The **WRITE STATE MACHINE (WSM)** is connected to the **STATE REGISTER**, **COMMAND DATA DECODER**, **COMMAND DATA LATCH**, and **PROGRAM/ERASE HIGH VOLTAGE**. The **PROGRAM/ERASE HIGH VOLTAGE** block provides high voltage to the **FLASH ARRAY**. The **CONTROL INPUT LOGIC** block receives control signals (**CE**, **OE**, **WE**, **RESET**, **BYTE**) and provides control signals to the **ADDRESS LATCH AND BUFFER** and the **FLASH ARRAY**. The **ADDRESS LATCH AND BUFFER** receives address signals (**A0-A20**) and provides address signals to the **X-DECODER**. The **I/O BUFFER** provides data signals (**Q0-Q15/A-1**) to the **FLASH ARRAY** and the **WRITE STATE MACHINE (WSM)**.

BUS OPERATION--1

| Operation | CE | OE | WE | RESET | WP/ACC | Addresses (Note 2) | Q0~Q7 | Q8 ~ Q15 | |
|-------------------------------------|---------------|----|----|-----------------|-----------------|---------------------------------------|------------------------------------|------------------|------------------------------|
| | | | | | | | | Byte=VIH | Byte=VIL |
| Read | L | L | H | H | L/H | A _{IN} | D _{OUT} | D _{OUT} | Q8-A14 =High-Z Q15=A-1 |
| Write (Note 1) | L | H | L | H | Note 3 | A _{IN} | D _{IN} | D _{IN} | |
| Accelerate Program | L | H | L | H | V _{HH} | A _{IN} | D _{IN} | D _{IN} | |
| Standby | VCC ± 0.3V | X | X | VCC ± 0.3V | H | X | High-Z | High-Z | High-Z |
| Output Disable | L | H | H | H | L/H | X | High-Z | High-Z | High-Z |
| Reset | X | X | X | L | L/H | X | High-Z | High-Z | High-Z |
| Sector Group Protect (Note 2) | L | H | L | V _{ID} | L/H | Sector Addresses, A6=L, A1=H, A0=L | D _{IN} , D _{OUT} | X | X |
| Chip Unprotect (Note 2) | L | H | L | V _{ID} | Note 3 | Sector Addresses, A6=H, A1=H, A0=L | D _{IN} , D _{OUT} | X | X |
| Temporary Sector Group Unprotect | X | X | X | V _{ID} | Note 3 | A _{IN} | D _{IN} | D _{IN} | High-Z |

Legend:

L=Logic LOW=VIL, H=Logic High=VIH, VID=12.0 0.5V, VHH=11.5-12.5V, X=Don't Care, AIN=Address IN, DIN=Data IN, DOUT=Data OUT

Notes:

1. When the WP/ACC pin is at VHH, the device enters the accelerated program mode. See "Accelerated Program Operations" for more information.
2. The sector group protect and chip unprotect functions may also be implemented via programming equipment. See the "Sector Group Protection and Chip Unprotection" section.
3. If WP/ACC=VIL, the two outermost boot sectors remain protected. If WP/ACC=VIH, the two outermost boot sector protection depends on whether they were last protected or unprotected using the method described in "Sector/Sector Block Protection and Unprotection". If WP/ACC=VHH, all sectors will be unprotected.
4. DIN or Dout as required by command sequence, data polling, or sector protection algorithm.
5. Address are A20:A0 in word mode (BYTE=VIH), A20:A-1 in byte mode (BYTE=VIL).

BUS OPERATION--2

| Operation | \overline{CE} | \overline{OE} | \overline{WE} | A20 to A12 | A11 to A10 | A9 | A8 to A7 | A6 | A5 to A2 | A1 | A0 | Q0-Q7 | Q8-Q15 |
|--|-----------------|-----------------|-----------------|------------|------------|-----------------|----------|----|----------|----|----|-------------------|-----------------------|
| Read Silicon ID Manufacturer Code | L | L | H | X | X | V _{ID} | X | L | X | L | L | C2H | X |
| Read Silicon ID MX29LV320AT | L | L | H | X | X | V _{ID} | X | L | X | L | H | A7H | 22h(word) X (byte) |
| Read Silicon ID MX29LV320AB | L | L | H | X | X | V _{ID} | X | L | X | L | H | A8H | 22h(word) X (byte) |
| Sector Protect Verification | L | L | H | SA | X | V _{ID} | X | L | X | H | L | 01h(1), or 00h | X |
| Security Sector Indicator Bit (Q7) | L | L | H | X | X | V _{ID} | X | L | X | H | H | 99h(2), or 19h | X |

Notes:

- 1.Code=00h means unprotected, or code=01h protected.
- 2.Code=99 means factory locked, or code=19h not factory locked.

WRITE COMMANDS/COMMAND SEQUENCES

To program data to the device or erase sectors of memory , the system must drive WE and CE to VIL, and OE to VIH.An erase operation can erase one sector, multiple sectors , or the entire device. A "sector address" consists of the address bits required to uniquely select a sector. Writing specific address and data commands or sequences into the command register initiates device operations. Table A defines the valid register command sequences. Writing incorrect address and data values or writing them in the improper sequence resets the device to reading array data. Section has details on erasing a sector or the entire chip, or suspending/resuming the erase operation.

After the system writes the Automatic Select command sequence, the device enters the Automatic Select mode. The system can then read Automatic Select codes from the internal register (which is separate from the memory array) on Q7-Q0. Standard read cycle timings apply in this mode. Refer to the Automatic Select Mode and Automatic Select Command Sequence section for more information.ICC2 in the DC Characteristics table represents the active current specification for the write mode. The "AC Characteristics" section contains timing specification table and timing diagrams for write operations.

TABLE A. MX29LV320AT/B COMMAND DEFINITIONS

| Command | | Bus Cycles | First Bus Cycle | | Second Bus Cycle | | Third Bus Cycle | | Fourth Bus Cycle | | Fifth Bus Cycle | | Sixth Bus Cycle | |
|--|------|---------------|--------------------|------|---------------------|------|--------------------|------|---------------------|-------|--------------------|------|--------------------|------|
| | | | Addr | Data | Addr | Data | Addr | Data | Addr | Data | Addr | Data | Addr | Data |
| Read(Note 5) | | 1 | RA | RD | | | | | | | | | | |
| Reset(Note 4) | | 1 | XXX | F0 | | | | | | | | | | |
| Automatic Select(Note 5) | | | | | | | | | | | | | | |
| Manufacturer ID | Word | 4 | 555 | AA | 2AA | 55 | 555 | 90 | X00 | C2H | | | | |
| | Byte | 4 | AAA | AA | 555 | 55 | AAA | 90 | X00 | C2H | | | | |
| Device ID | Word | 4 | 555 | AA | 2AA | 55 | 555 | 90 | X01 | ID | | | | |
| | Byte | 4 | AAA | AA | 555 | 55 | AAA | 90 | X02 | | | | | |
| Security Sector Factory Protect Verify (Note 6) | Word | 4 | 555 | AA | 2AA | 55 | 555 | 90 | X03 | 99/19 | | | | |
| | Byte | 4 | AAA | AA | 555 | 55 | AAA | 90 | X06 | | | | | |
| Sector Protect Verify (Note 7) | Word | 4 | 555 | AA | 2AA | 55 | 555 | 90 | (SA)X02 | 00/01 | | | | |
| | Byte | 4 | AAA | AA | 555 | 55 | AAA | 90 | (SA)X04 | | | | | |
| Enter Security Sector Region | Word | 3 | 555 | AA | 2AA | 55 | 555 | 88 | | | | | | |
| | Byte | 3 | AAA | AA | 555 | 55 | AAA | 88 | | | | | | |
| Exit Security Sector | Word | 4 | 555 | AA | 2AA | 55 | 555 | 90 | XXX | 00 | | | | |
| | Byte | 4 | AAA | AA | 555 | 55 | AAA | 90 | XXX | 00 | | | | |
| Program | Word | 4 | 555 | AA | 2AA | 55 | 555 | A0 | PA | PD | | | | |
| | Byte | 4 | AAA | AA | 555 | 55 | AAA | A0 | PA | PD | | | | |
| Chip Erase | Word | 6 | 555 | AA | 2AA | 55 | 555 | 80 | 555 | AA | 2AA | 55 | 555 | 10 |
| | Byte | 6 | AAA | AA | 555 | 55 | AAA | 80 | AAA | AA | 555 | 55 | AAA | 10 |
| Sector Erase | Word | 6 | 555 | AA | 2AA | 55 | 555 | 80 | 555 | AA | 2AA | 55 | SA | 30 |
| | Byte | 6 | AAA | AA | 555 | 55 | AAA | 80 | AAA | AA | 555 | 55 | SA | 30 |
| CFI Query (Note 8) | Word | 1 | 55 | 98 | | | | | | | | | | |
| | Byte | 1 | AA | 98 | | | | | | | | | | |
| Erase Suspend(Note 9) | | 1 | SA | B0 | | | | | | | | | | |
| Erase Resume(Note 10) | | 1 | SA | 30 | | | | | | | | | | |

Legend:

X=Don't care

RA=Address of the memory location to be read.

RD=Data read from location RA during read operation.

PA=Address of the memory location to be programmed.

Addresses are latched on the falling edge of the WE or CE pulse.

PD=Data to be programmed at location PA. Data is latched on the rising edge of WE or CE pulse.

SA=Address of the sector to be erased or verified. Address bits A20-A12 uniquely select any sector.

ID=22A7h(Top), 22A8h(Bottom)

Notes:

- 1.All values are in hexadecimal.
- 2.Except when reading array or Automatic Select data, all bus cycles are write operation.
- 3.The Reset command is required to return to the read mode when the device is in the Automatic Select mode or if Q5 goes high.
- 4.The fourth cycle of the Automatic Select command sequence is a read cycle.
- 5.The data is 99h for factory locked and 19h for not factory locked.
- 6.The data is 00h for an unprotected sector/sector block and 01h for a protected sector/sector block. In the third cycle of the command sequence, address bit A20=0 to verify sectors 0~31, A20=1 to verify sectors 32~70 for Top Boot device.
- 7.Command is valid when device is ready to read array data or when device is in Automatic Select mode.
- 8.The system may read and program functions in non-erasing sectors, or enter the Automatic Select mode, when in the erase Suspend mode. The Erase Suspend command is valid only during a sector erase operation.
- 9.The Erase Resume command is valid only during the Erase Suspend mode.

STANDBY MODE

MX29LV320AT/B can be set into Standby mode with two different approaches. One is using both CE and RESET pins and the other one is using RESET pin only.

When using both pins of CE and RESET, a CMOS Standby mode is achieved with both pins held at $V_{CC} \pm 0.3V$. Under this condition, the current consumed is less than 0.2uA (typ.). If both of the CE and RESET are held at V_{IH} , but not within the range of $V_{CC} \pm 0.3V$, the device will still be in the standby mode, but the standby current will be larger. During Auto Algorithm operation, V_{CC} active current ($ICC2$) is required even $CE = "H"$ until the operation is completed. The device can be read with standard access time (t_{CE}) from either of these standby modes.

When using only RESET, a CMOS standby mode is achieved with RESET input held at $V_{SS} \pm 0.3V$. Under this condition the current is consumed less than 1uA (typ.). Once the RESET pin is taken high, the device is back to active without recovery delay. In the standby mode the outputs are in the high impedance state, independent of the OE input. MX29LV320AT/B is capable to provide the Automatic Standby Mode to restrain power consumption during readout of data. This mode can be used effectively with an application requested low power consumption such as handy terminals.

To active this mode, MX29LV320AT/B automatically switch themselves to low power mode when MX29LV320AT/B addresses remain stable during access time of $t_{ACC} + 30ns$. It is not necessary to control CE, WE, and OE on the mode. Under the mode, the current consumed is typically 0.2uA (CMOS level).

RESET OPERATION

The RESET pin provides a hardware method of resetting the device to reading array data. When the RESET pin is driven low for at least a period of t_{RP} , the device immediately terminates any operation in progress, tristates all output pins, and ignores all read/write commands for the duration of the RESET pulse. The device also resets the internal state machine to reading array data. The operation that was interrupted should be reinitiated once the device is ready to accept another command sequence, to ensure data integrity.

Current is reduced for the duration of the RESET pulse. When RESET is held at $V_{SS} \pm 0.3V$, the device draws CMOS standby current ($ICC4$). If RESET is held at V_{IL} but not within $V_{SS} \pm 0.3V$, the standby current will be greater. The RESET pin may be tied to system reset circuitry. A system reset would that also reset the Flash memory, enabling the system to read the boot-up firm-ware from the Flash memory.

If RESET is asserted during a program or erase operation, the RY/BY pin remains a "0" (busy) until the internal reset operation is complete, which requires a time of tREADY (during Embedded Algorithms). The system can thus monitor RY/BY to determine whether the reset operation is complete. If RESET is asserted when a program or erase operation is not executing (RY/BY pin is "1"), the reset operation is completed within a time of tREADY (not during Embedded Algorithms). The system can read data tRH after the RESET pin returns to VIH. Refer to the AC Characteristics tables for RESET parameters and to Figure 14 for the timing diagram.

WRITE PROTECT (WP)

The write protect function provides a hardware method to protect boot sectors without using VID.

If the system asserts VIL on the WP/ACC pin, the device disables program and erase functions in the two "outermost" 8 Kbyte boot sectors independently of whether those sectors were protected or unprotected using the method described in "Sector/Sector Group Protection and Chip Unprotection". The two outermost 8 Kbyte boot sectors are the two sectors containing the lowest addresses in a bottom-boot-configured device, or the two sectors containing the highest addresses in a top-boot-configured device.

If the system asserts VIH on the WP/ACC pin, the device reverts to whether the two outermost 8K Byte boot sectors were last set to be protected or unprotected. That is, sector protection or unprotection for these two sectors depends on whether they were last protected or unprotected using the method described in "Sector/Sector Group Protection and Chip Unprotection".

Note that the WP/ACC pin must not be left floating or unconnected; inconsistent behavior of the device may result.

SOFTWARE COMMAND DEFINITIONS :

Device operations are selected by writing specific address and data sequences into the command register. Writing incorrect address and data values or writing them in the improper sequence will reset the device to the read mode. Table 3 defines the valid register command sequences. Note that the Erase Suspend (B0H) and Erase Resume (30H) commands are valid only while the Sector Erase operation is in progress. Either of the two reset command sequences will reset the device (when applicable).

All addresses are latched on the falling edge of WE or CE, whichever happens later. All data are latched on rising edge of WE or CE, whichever happens first.

WRITE OPERATION STATUS

The device provides several bits to determine the status of a write operation: Q2, Q3, Q5, Q6, Q7, and RY/BY. Table B and the following subsections describe the functions of these bits. Q7, RY/BY, and Q6 each offer a method for determining whether a program or erase operation is complete or in progress. These three bits are discussed first.

Table B. Write Operation Status

| | Status | | Q7 Note1 | Q6 | Q5 Note2 | Q3 | Q2 | RY/BY |
|----------------------|---|---|-----------------|-----------|-------------|------|-----------|-------|
| | | | | | | | | |
| In Progress | Byte/Word Program in Auto Program Algorithm | | $\overline{Q7}$ | Toggle | 0 | N/A | No Toggle | 0 |
| | Auto Erase Algorithm | | 0 | Toggle | 0 | 1 | Toggle | 0 |
| | Erase Suspended Mode | Erase Suspend Read (Erase Suspended Sector) | 1 | No Toggle | 0 | N/A | Toggle | 1 |
| | | Erase Suspend Read (Non-Erase Suspended Sector) | Data | Data | Data | Data | Data | 1 |
| | | Erase Suspend Program | $\overline{Q7}$ | Toggle | 0 | N/A | N/A | 0 |
| Exceeded Time Limits | Byte/Word Program in Auto Program Algorithm | | $\overline{Q7}$ | Toggle | 1 | N/A | No Toggle | 0 |
| | Auto Erase Algorithm | | 0 | Toggle | 1 | 1 | Toggle | 0 |
| | Erase Suspend Program | | $\overline{Q7}$ | Toggle | 1 | N/A | N/A | 0 |

Notes:

1. Performing successive read operations from the erase-suspended sector will cause Q2 to toggle.
2. Performing successive read operations from any address will cause Q6 to toggle.
3. Reading the byte/word address being programmed while in the erase-suspend program mode will indicate logic "1" at the Q2 bit.
However, successive reads from the erase-suspended sector will cause Q2 to toggle.

Fig C. COMMAND WRITE OPERATION

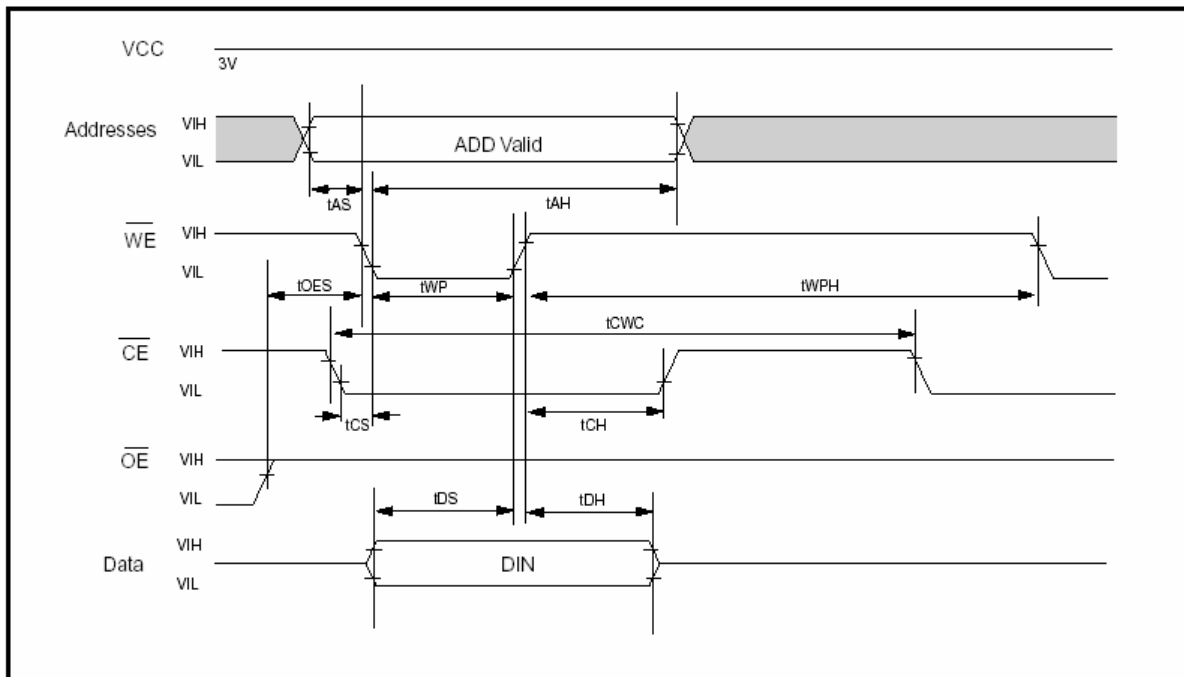
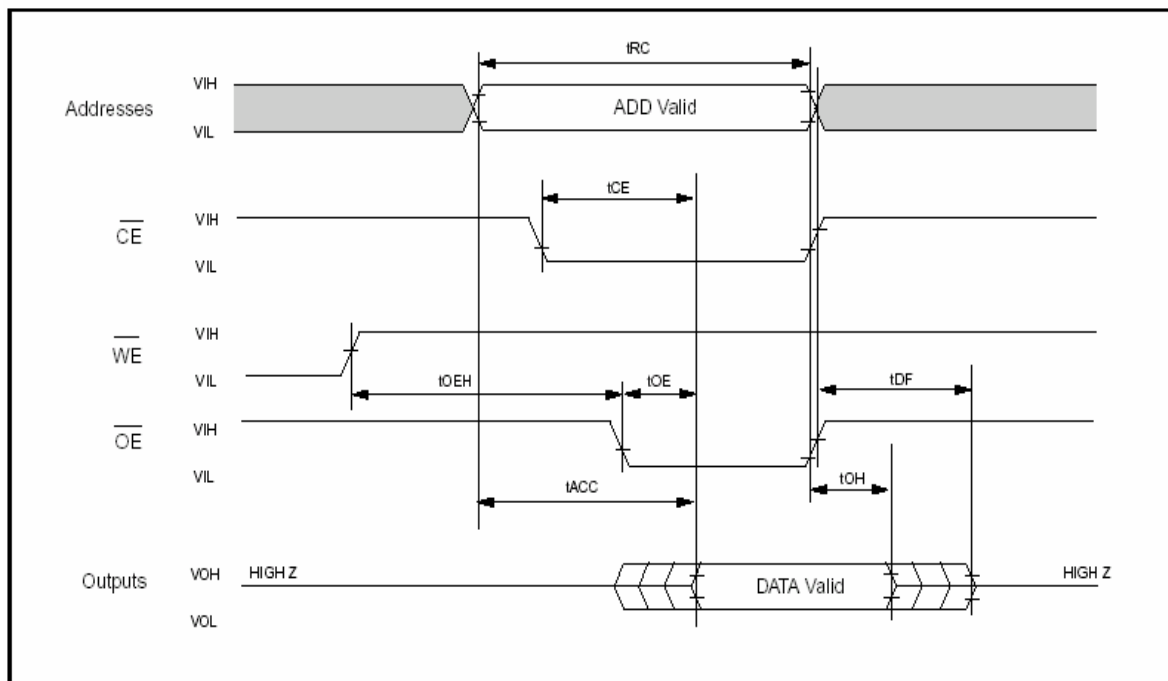


Fig D. READ TIMING WAVEFORMS

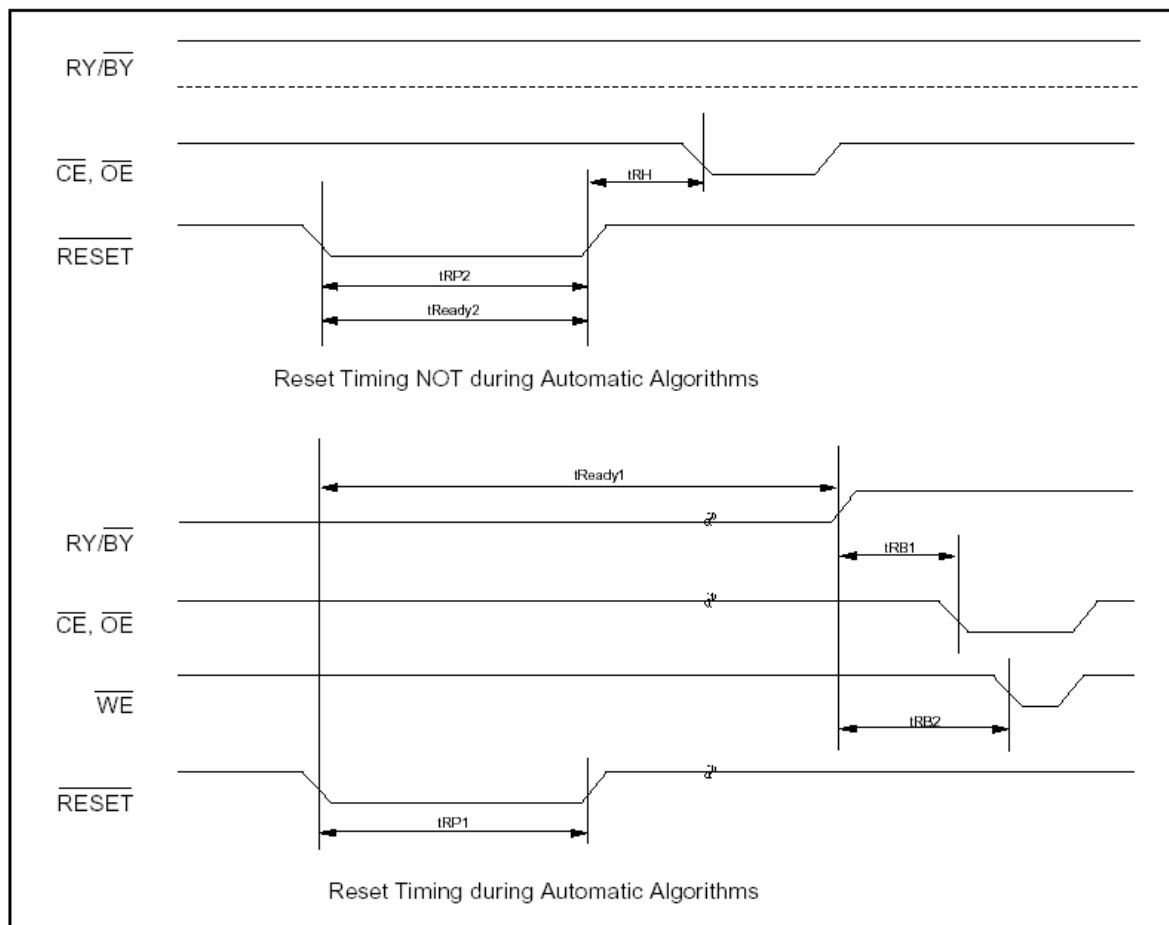


AC CHARACTERISTICS

| Parameter | Description | Test Setup | All Speed Options | Unit |
|-----------|---|------------|-------------------|------|
| tREADY1 | RESET PIN Low (During Automatic Algorithms) to Read or Write (See Note) | MAX | 20 | us |
| tREADY2 | RESET PIN Low (NOT During Automatic Algorithms) to Read or Write (See Note) | MAX | 500 | ns |
| tRP1 | RESET Pulse Width (During Automatic Algorithms) | MIN | 10 | us |
| tRP2 | RESET Pulse Width (NOT During Automatic Algorithms) | MIN | 500 | ns |
| tRH | RESET High Time Before Read (See Note) | MIN | 70 | ns |
| tRB1 | RY/BY Recovery Time (to \overline{CE} , \overline{OE} go low) | MIN | 0 | ns |
| tRB2 | RY/BY Recovery Time (to \overline{WE} go low) | MIN | 50 | ns |

Note: Not 100% tested

Fig E. RESET TIMING WAVEFORM

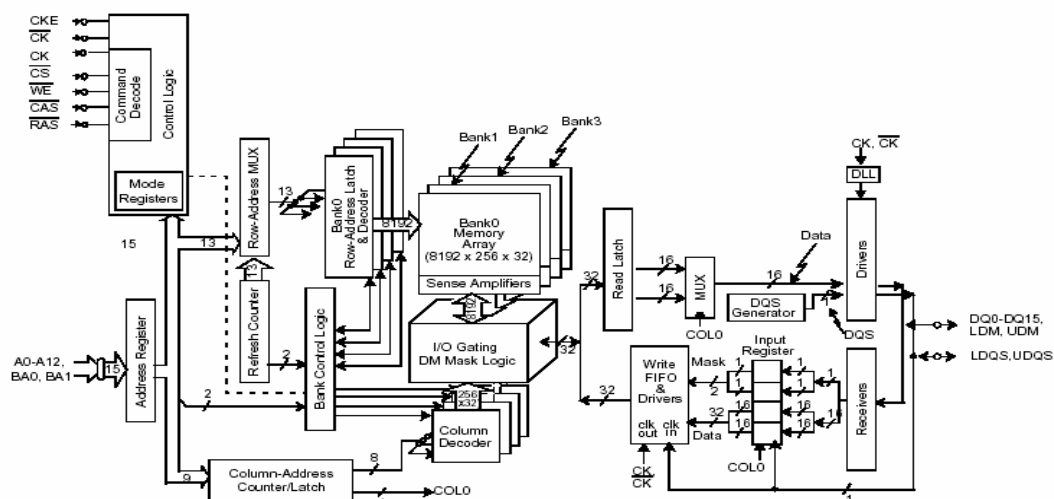


DDR SDRAM (NT5DS16M16CS-5T) Application:

Functional Description

The 256Mb DDR SDRAM is a high-speed CMOS, dynamic random-access memory containing 268, 435, 456 bits. The 256Mb DDR SDRAM is internally configured as a quad-bank DRAM. The 256Mb DDR SDRAM uses a double-data-rate architecture to achieve high-speed operation. The double-data-rate architecture is essentially a $2n$ prefetch architecture, with an interface designed to transfer two data words per clock cycle at the I/O pins. A single read or write access for the 256Mb DDR SDRAM consists of a single $2n$ -bit wide, one clock cycle data transfer at the internal DRAM core and two corresponding n -bit wide, one-half clock cycle data transfers at the I/O pins. Read and write accesses to the DDR SDRAM are burst oriented; accesses start at a selected location and continue for a programmed number of locations in a programmed sequence. Accesses begin with the registration of an Active command, which is then followed by a Read or Write command. The address bits registered coincident with the Active command are used to select the bank and row to be accessed (BA0, BA1 select the bank; A0-A12 select the row). The address bits registered coincident with the Read or Write command are used to select the starting column location for the burst access. Prior to normal operation, the DDR SDRAM must be initialized. The following sections provide detailed information covering device initialization, register definition, command descriptions and device operation.

Block Diagram (16Mb x 16)

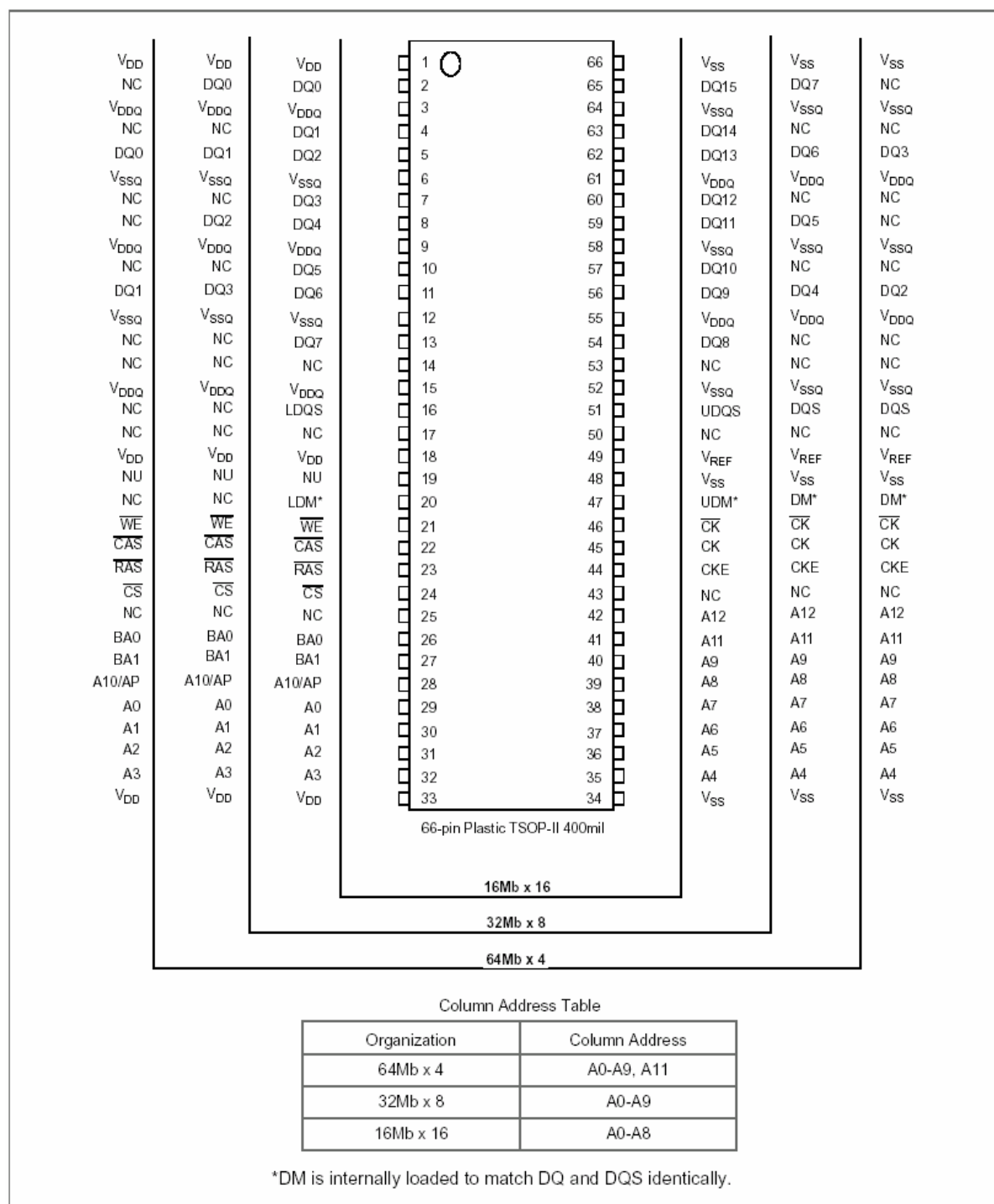


Note: This Functional Block Diagram is intended to facilitate user understanding of the operation of the device; it does not represent an actual circuit implementation.

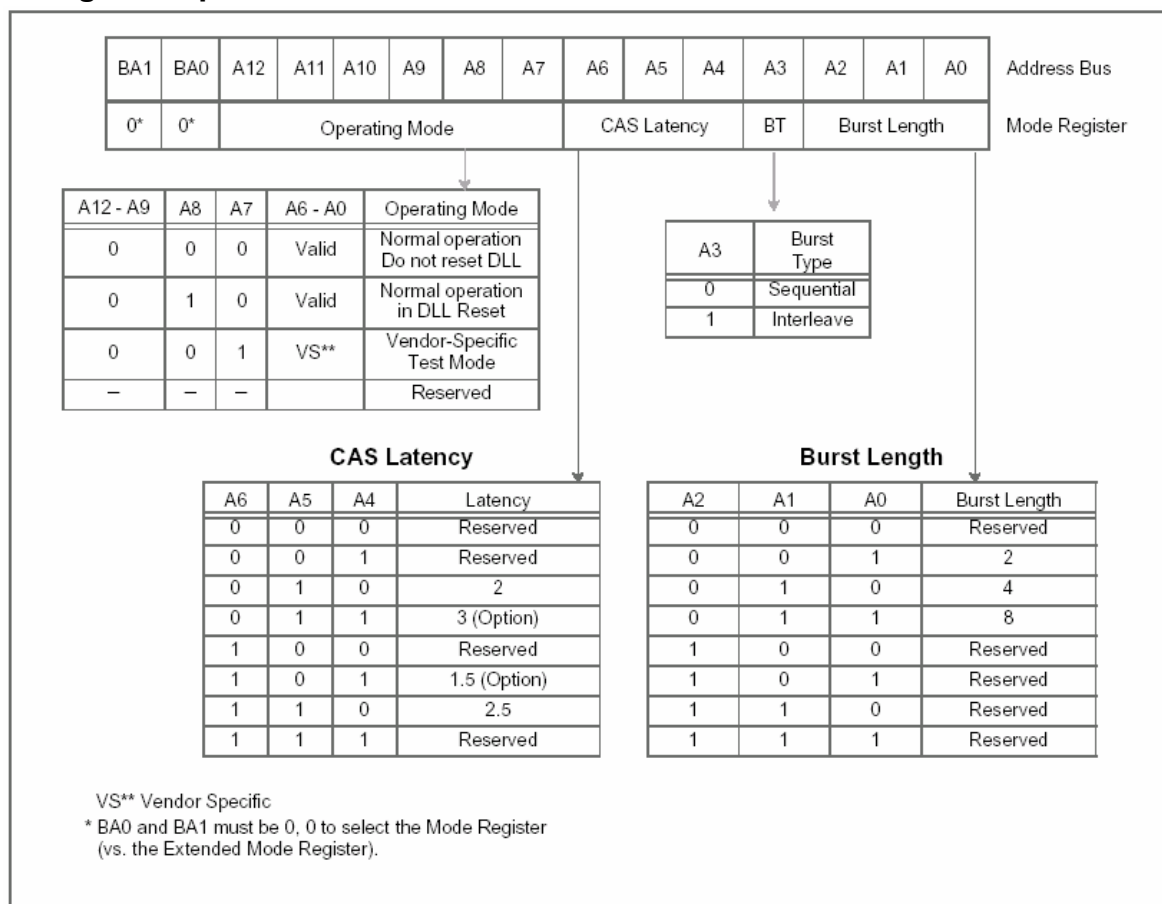
Note: DM is a unidirectional signal (input only), but is internally loaded to match the load of the bidirectional DQ and DQS signals.

CONFIDENTIAL - DO NOT COPY

Pin Configuration - 400mil TSOP II (x4 / x8 / x16)



Mode Register Operation



Operating Mode

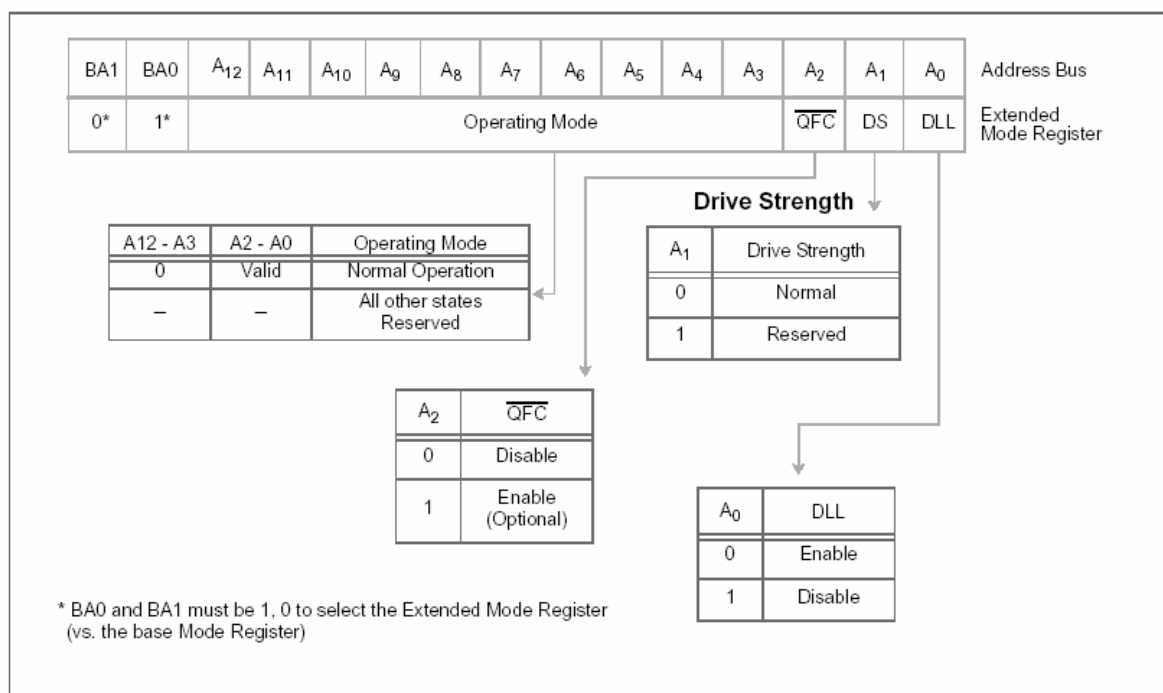
The normal operating mode is selected by issuing a Mode Register Set Command with bits A7-A12 to zero, and bits A0-A6 set to the desired values. A DLL reset is initiated by issuing a Mode Register Set command with bits A7 and A9-A12 each set to zero, bit A8 set to one, and bits A0-A6 set to the desired values. A Mode Register Set command issued to reset the DLL should always be followed by a Mode Register Set command to select normal operating mode.

All other combinations of values for A7-A12 are reserved for future use and/or test modes. Test modes and reserved states should not be used as unknown operation or incompatibility with future versions may result.

Extended Mode Register

The Extended Mode Register controls functions beyond those controlled by the Mode Register; these additional functions include DLL enable/disable, bit A0; output drive strength selection, bit A1; and QFC output enable/disable, bit A2 (NTC optional). These functions are controlled via the bit settings shown in the Extended Mode Register Definition. The Extended Mode Register is programmed via the Mode Register Set command (with BA0 = 1 and BA1 = 0) and retains the stored information until it is programmed again or the device loses power. The Extended Mode Register must be loaded when all banks are idle, and the controller must wait the specified time before initiating any subsequent operation. Violating either of these requirements result in unspecified operation.

Extended Mode Register Definition



Truth Table a: Commands

| Name (Function) | \overline{CS} | \overline{RAS} | \overline{CAS} | \overline{WE} | Address | MNE | Notes |
|--|-----------------|------------------|------------------|-----------------|----------|---------|---------|
| Deselect (Nop) | H | X | X | X | X | NOP | 1, 9 |
| No Operation (Nop) | L | H | H | H | X | NOP | 1, 9 |
| Active (Select Bank And Activate Row) | L | L | H | H | Bank/Row | ACT | 1, 3 |
| Read (Select Bank And Column, And Start Read Burst) | L | H | L | H | Bank/Col | Read | 1, 4 |
| Write (Select Bank And Column, And Start Write Burst) | L | H | L | L | Bank/Col | Write | 1, 4 |
| Burst Terminate | L | H | H | L | X | BST | 1, 8 |
| Precharge (Deactivate Row In Bank Or Banks) | L | L | H | L | Code | PRE | 1, 5 |
| Auto Refresh Or Self Refresh (Enter Self Refresh Mode) | L | L | L | H | X | AR / SR | 1, 6, 7 |
| Mode Register Set | L | L | L | L | Op-Code | MRS | 1, 2 |

1. CKE is high for all commands shown except Self Refresh.
2. BA0, BA1 select either the Base or the Extended Mode Register (BA0 = 0, BA1 = 0 selects Mode Register; BA0 = 1, BA1 = 0 selects ,Extended Mode Register; other combinations of BA0-BA1 are reserved; A0-A12 provide the op-code to be written to the selected Mode Register.)
3. BA0-BA1 provide bank address and A0-A12 provide row address.
4. BA0, BA1 provide bank address; A0-A_i provide column address (where $i = 9$ for x8 and 9, 11 for x4); A10 high enables the Auto Precharge feature (non-persistent), A10 low disables the Auto Precharge feature.
5. A10 LOW: BA0, BA1 determine which bank is precharged.A10 HIGH: all banks are precharged and BA0, BA1 are "Don't Care."
6. This command is auto refresh if CKE is high; Self Refresh if CKE is low.
7. Internal refresh counter controls row and bank addressing; all inputs and I/Os are "Don't Care" except for CKE.
8. Applies only to read bursts with Auto Precharge disabled; this command is undefined (and should not be used) for read bursts with Auto Precharge enabled or for write bursts
9. Deselect and NOP are functionally interchangeable.

Active

The Active command is used to open (or activate) a row in a particular bank for a subsequent access. The value on the BA0,BA1 inputs selects the bank, and the address provided on inputs A0-A12 selects the row. This row remains active (or open) for accesses until a Precharge (or Read or Write with Auto Precharge) is issued to that bank. A Precharge (or Read or Write with Auto Precharge) command must be issued and completed before opening a different row in the same bank.

Read

The Read command is used to initiate a burst read access to an active (open) row. The value on the BA0, BA1 inputs selects the bank, and the address provided on inputs A0-A_i, A_j (where $[i = 9, j = \text{don't care}]$ for x8; where $[i = 9, j = 11]$ for x4) selects the starting column location. The value on input A10 determines whether or not Auto Precharge is used. If Auto Precharge is selected, the row being accessed is precharged at the end of the Read burst; if Auto Precharge is not selected, the row remains open for subsequent accesses.

Write

The Write command is used to initiate a burst write access to an active (open) row. The value on the BA0, BA1 inputs selects the bank, and the address provided on inputs A0-Ai, Aj (where [i = 9, j = don't care] for x8; where [i = 9, j = 11] for x4) selects the starting column location. The value on input A10 determines whether or not Auto Precharge is used. If Auto Precharge is selected, the row being accessed is precharged at the end of the Write burst; if Auto Precharge is not selected, the row remains open for subsequent accesses. Input data appearing on the DQs is written to the memory array subject to the DM input logic level appearing coincident with the data. If a given DM signal is registered low, the corresponding data is written to memory; if the DM signal is registered high, the corresponding data inputs are ignored, and a Write is not executed to that byte/column location.

Auto Refresh

Auto Refresh is used during normal operation of the DDR SDRAM and is analogous to CAS Before RAS (CBR) Refresh in previous DRAM types. This command is nonpersistent, so it must be issued each time a refresh is required. The refresh addressing is generated by the internal refresh controller. This makes the address bits "Don't Care" during an Auto Refresh command. The 256Mb DDR SDRAM requires Auto Refresh cycles at an average periodic interval of 7.8µs (maximum).

Self Refresh

The Self Refresh command can be used to retain data in the DDR SDRAM, even if the rest of the system is powered down. When in the self refresh mode, the DDR SDRAM retains data without external clocking. The Self Refresh command is initiated as an Auto Refresh command coincident with CKE transitioning low. The DLL is automatically disabled upon entering Self Refresh, and is automatically enabled upon exiting Self Refresh (200 clock cycles must then occur before a Read command can be issued). Input signals except CKE (low) are "Don't Care" during Self Refresh operation.

The procedure for exiting self refresh requires a sequence of commands. CK (and CK) must be stable prior to CKE returning high. Once CKE is high, the SDRAM must have NOP commands issued for tXSNR because time is required for the completion of any internal refresh in progress. A simple algorithm for meeting both refresh and DLL requirements is to apply NOPs for 200 clock cycles before applying any other command.

Operations:

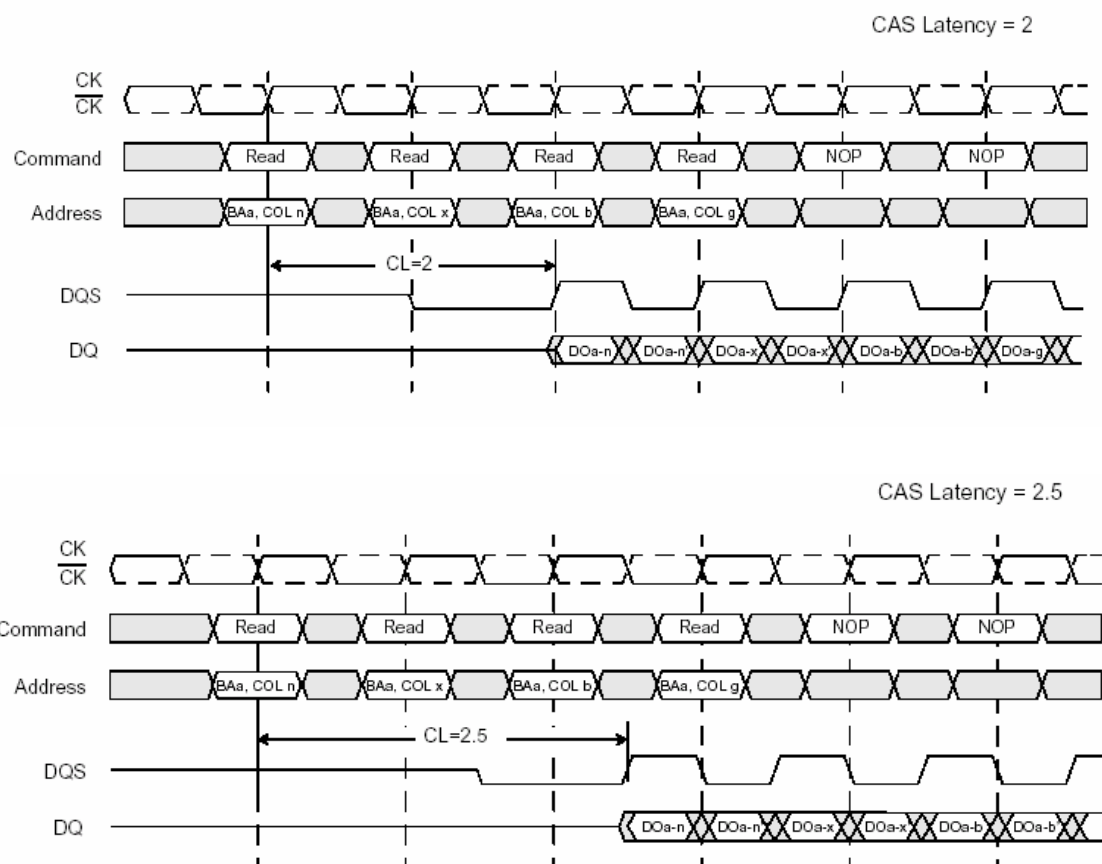
Reads

Subsequent to programming the mode register with CAS latency, burst type, and burst length, Read bursts are initiated with a Read command.


The starting column and bank addresses are provided with the Read command and Auto Precharge is either enabled or disabled for that burst access. If Auto Precharge is enabled, the row that is accessed starts precharge at the completion of the burst, provided tRAS has been satisfied. For the generic Read commands used in the following illustrations, Auto Precharge is disabled.

During Read bursts, the valid data-out element from the starting column address is available following the CAS latency after the Read command. Each subsequent data-out element is valid nominally at the next positive or negative clock edge (i.e. at the next crossing of CK and CK). The following timing figure entitled "Read Burst: CAS Latencies (Burst Length=4)" illustrates the general timing for each supported CAS latency setting. DQS is driven by the DDR SDRAM along with output data. The initial low state on DQS is known as the read preamble; the low state coincident with the last data-out element is known as the read postamble. Upon completion of a burst, assuming no other commands have been initiated, the DQs and DQS goes High-Z. Data from any Read burst may be concatenated with or truncated with data from a subsequent Read command. In either case, a continuous flow of data can be maintained. The first data element from the new burst follows either the last element of a completed burst or the last desired data element of a longer burst which is being truncated. The new Read command should be issued x cycles after the first Read command, where x equals the number of desired data element pairs (pairs are required by the 2n prefetch architecture). This is shown in timing figure entitled "Consecutive Read Bursts: CAS Latencies (Burst Length =4 or 8)". A Read command can be initiated on any positive clock cycle following a previous Read command. Nonconsecutive Read data is shown in timing figure entitled "Non-Consecutive Read Bursts: CAS Latencies (Burst Length = 4)". Full-speed Random Read Accesses: CAS Latencies (Burst Length = 2, 4 or 8) within a page (or pages) can be performed as shown on following:

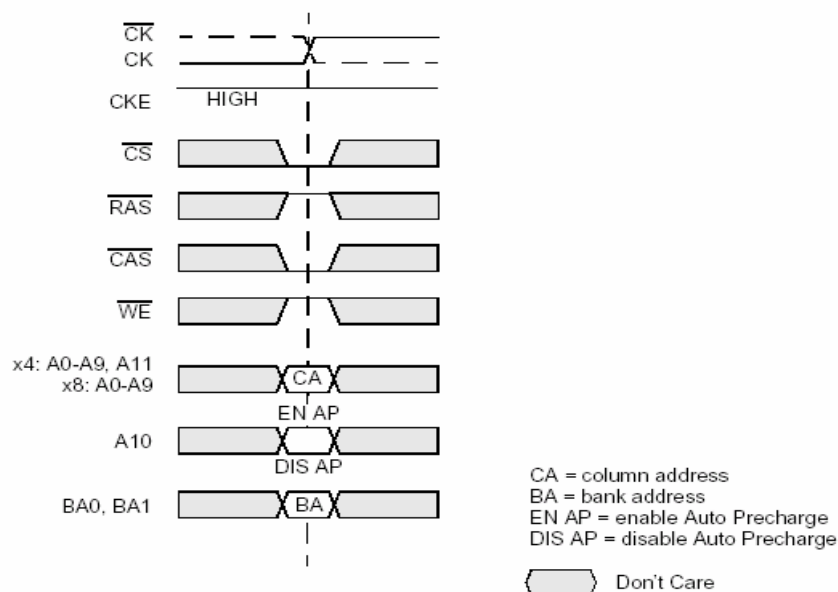
Random Read Accesses: CAS Latencies (Burst Length = 2, 4 or 8)



DO a-n, etc. = data out from bank a, column n etc.
 n' etc. = odd or even complement of n, etc. (i.e., column address LSB inverted).
 Reads are to active rows in any banks.
 Shown with nominal t_{AC} , t_{DQSCk} and t_{DQSQ} .

 Don't Care

Read Command



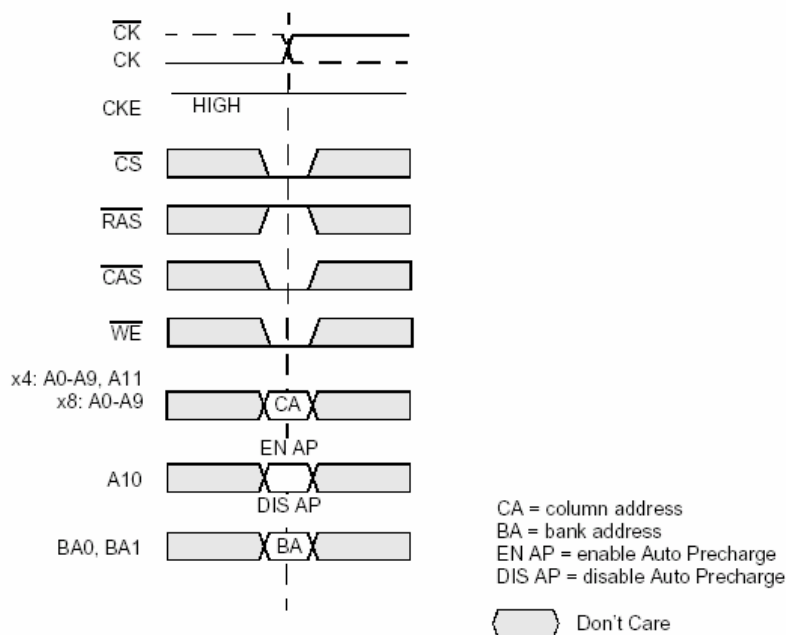
Writes

Write bursts are initiated with a Write command, as shown in timing figure *Write Command* on following: The starting column and bank addresses are provided with the Write command, and Auto Precharge is either enabled or disabled for that access. If Auto Precharge is enabled, the row being accessed is precharged at the completion of the burst. For the generic Write commands used in the following illustrations, Auto Precharge is disabled.

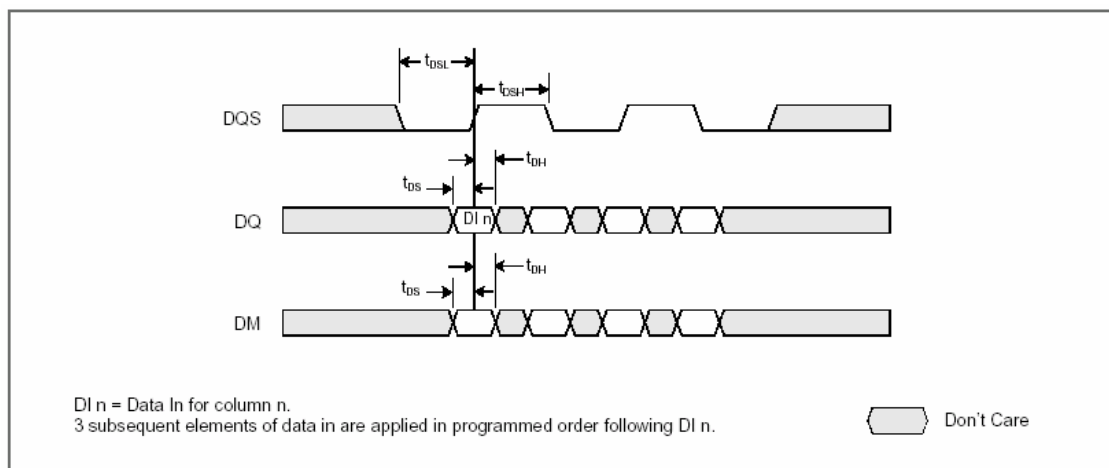
During Write bursts, the first valid data-in element is registered on the first rising edge of DQS following the write command, and subsequent data elements are registered on successive edges of DQS. The Low state on DQS between the Write command and the first rising edge is known as the write preamble; the Low state on DQS following the last data-in element is known as the write postamble. The time between the Write command and the first corresponding rising edge of DQS (t_{DQSS}) is specified with a relatively wide range (from 75% to 125% of one clock cycle), so most of the Write diagrams that follow are drawn for the two extreme cases (i.e. $t_{DQSS}(\min)$ and $t_{DQSS}(\max)$). Timing figure *Write Burst (Burst Length = 4)* on page 33 shows the two extremes of t_{DQSS} for a burst of four. Upon completion of a burst, assuming no other commands have been initiated, the DQs and DQS enters High-Z and any additional input data is ignored. Data for any Write burst may be concatenated with or truncated with a subsequent Write command. In either case, a continuous flow of input data can be maintained.

The new Write command can be issued on any positive edge of clock following the previous Write command. The first data element from the new burst is applied after either the last element of a completed burst or the last desired data element of a longer burst which is being truncated. The new Write command should be issued x cycles after the first Write command, where x equals the number of desired data element pairs (pairs are required by the 2n prefetch architecture).

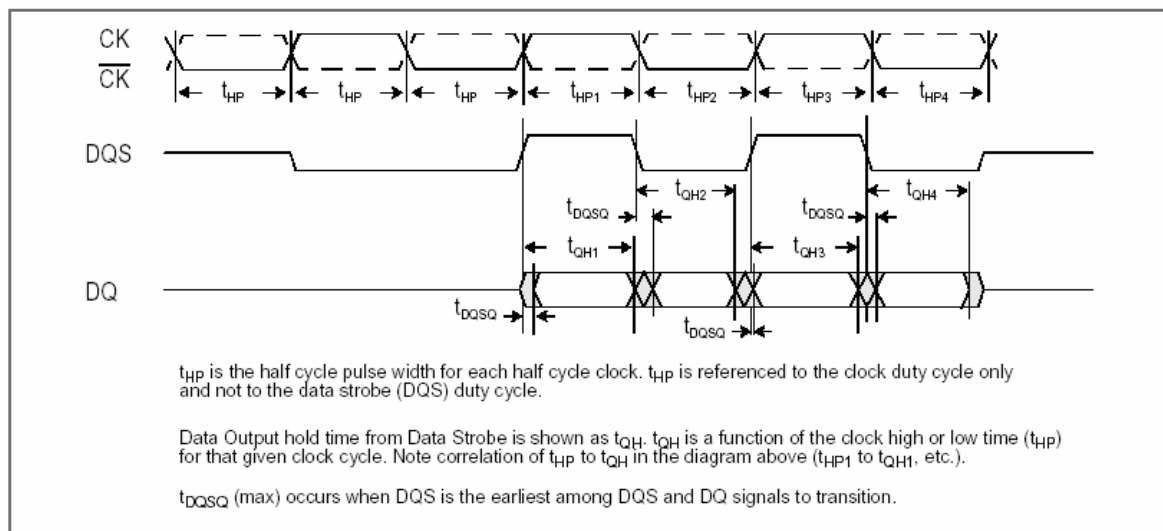
Write Command



Data Input (Write)



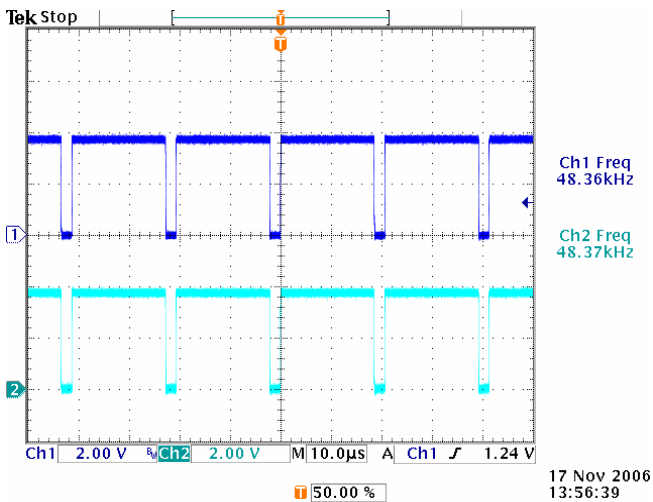
Data Output (Read)



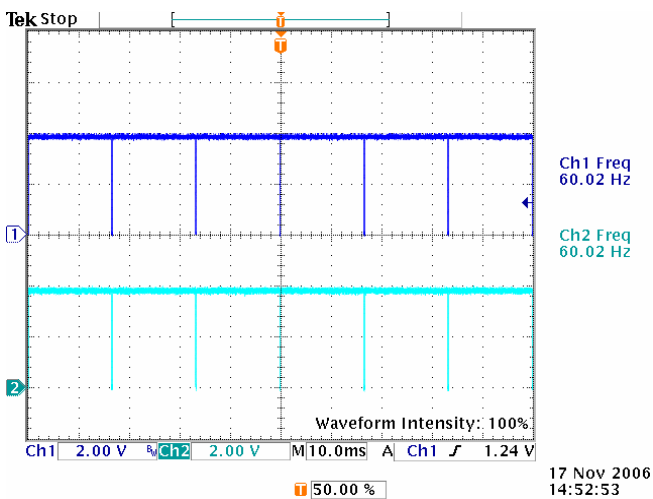
Chapter8 Waveforms

PC MODE(1366X768 60HZ)

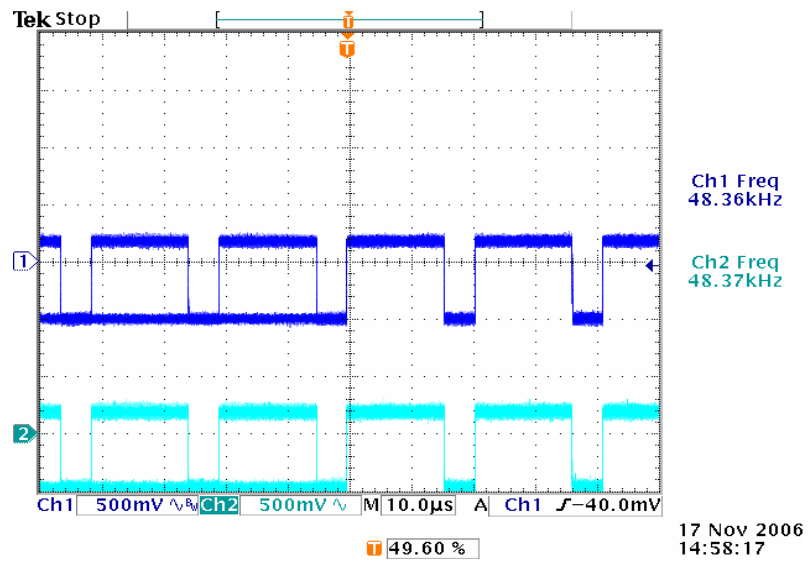
CH1 H-sync (R209); CH2 H-sync (L52)



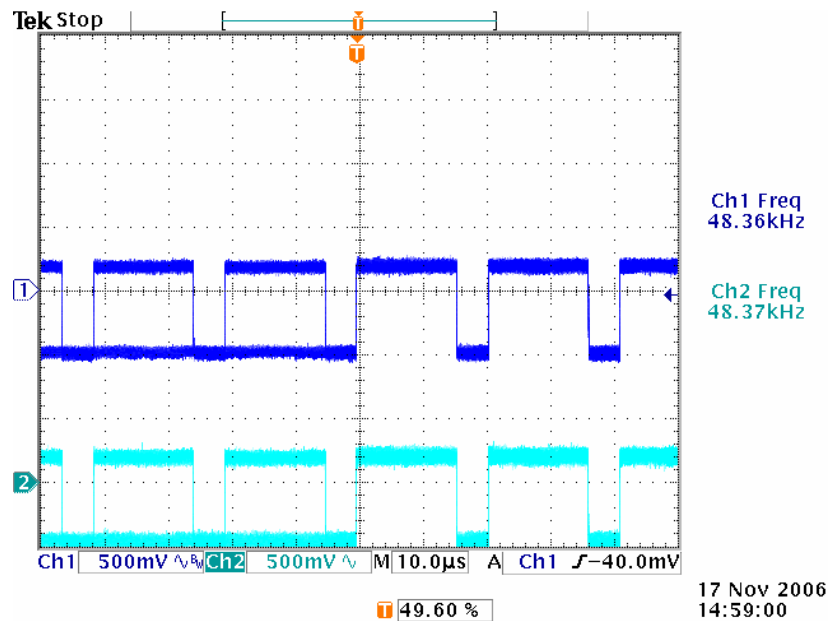
CH1 V-sync (R213); CH2 V-sync (L53)



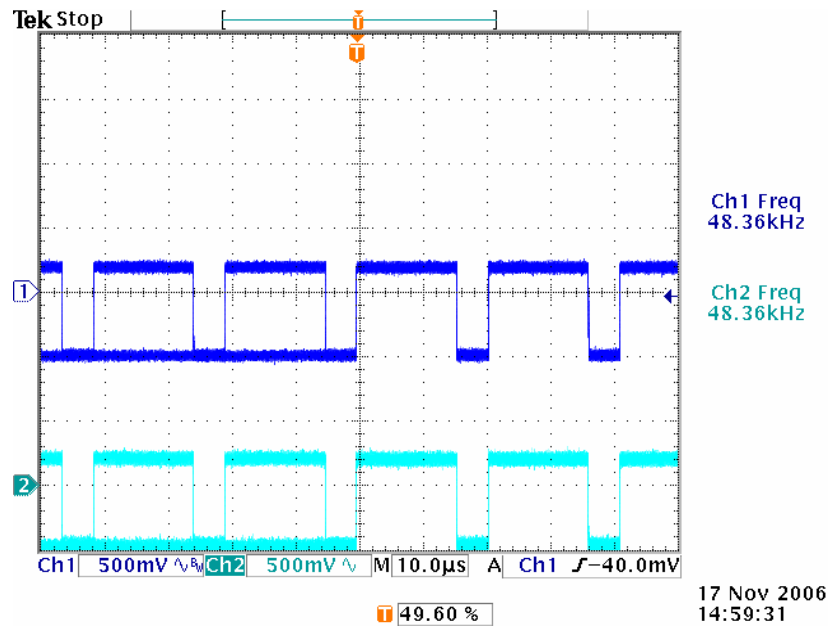
CH1 R (R203) CH1 R (C95)



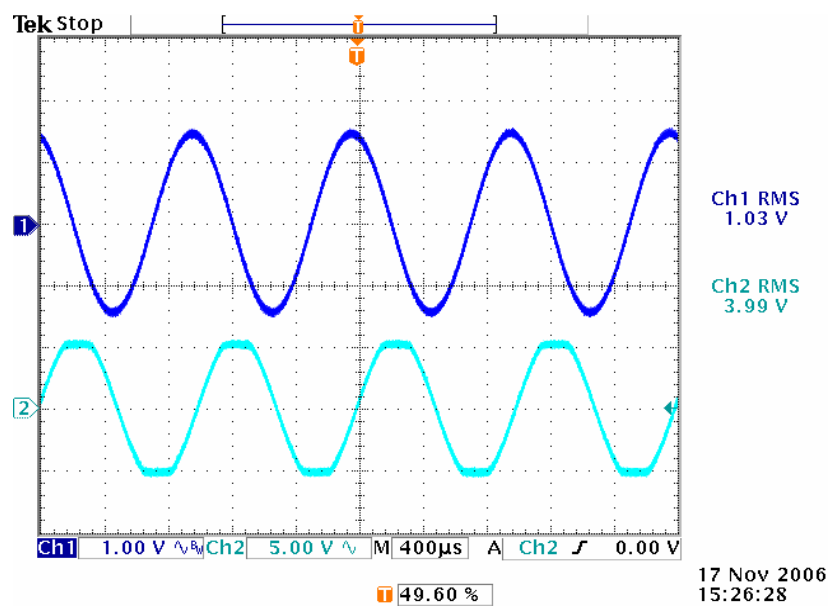
CH1 B (R199) CH1 B (C92)



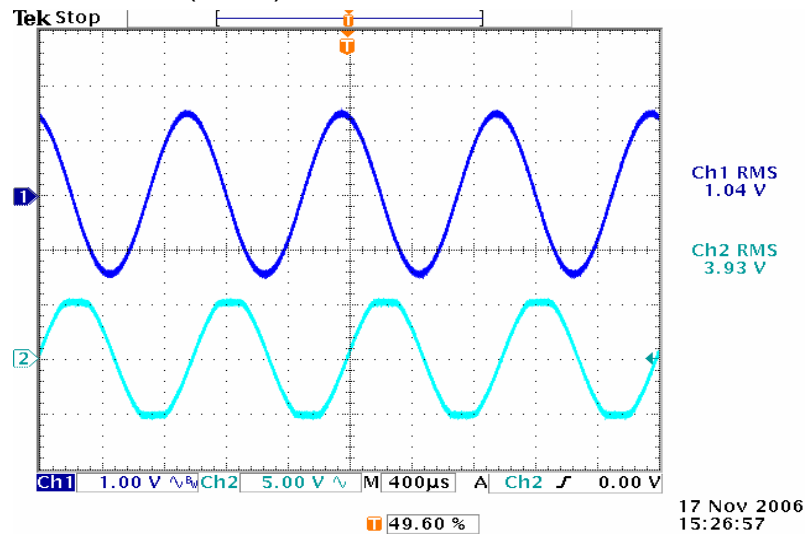
CH1 G (R195) CH1 G (C89)



CH1 VGAL (R207); CH2 VOL

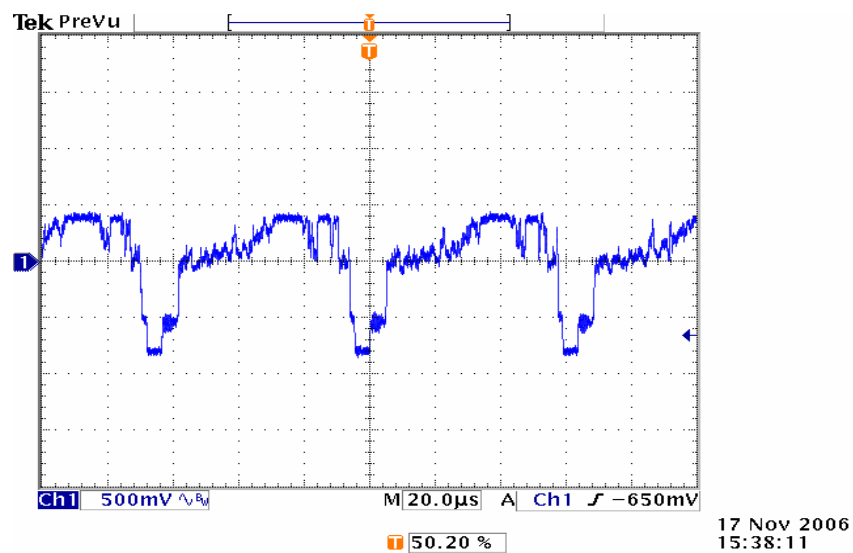


CH1 VGAR (R208) ; CH2 VOL

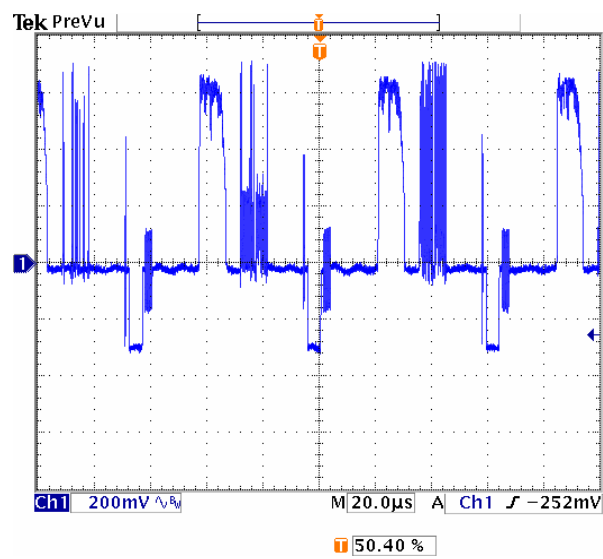


AV&TV MODE (AV1/AV2/TV) VIDEO

CH1 TV

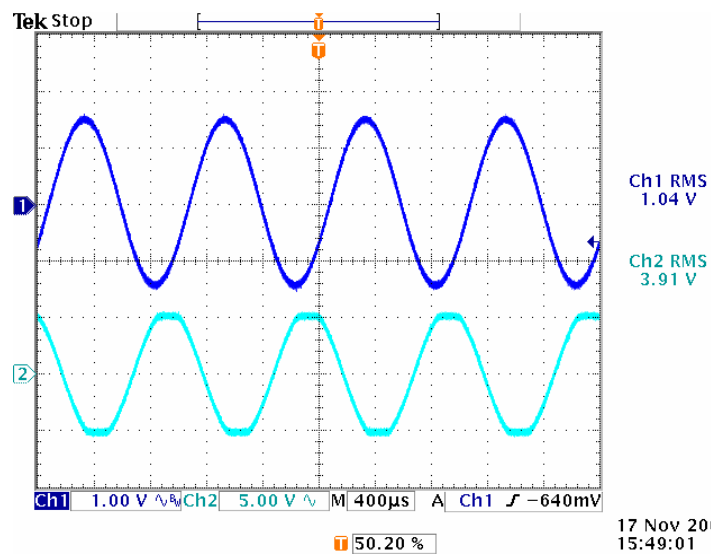


CH1 AV1



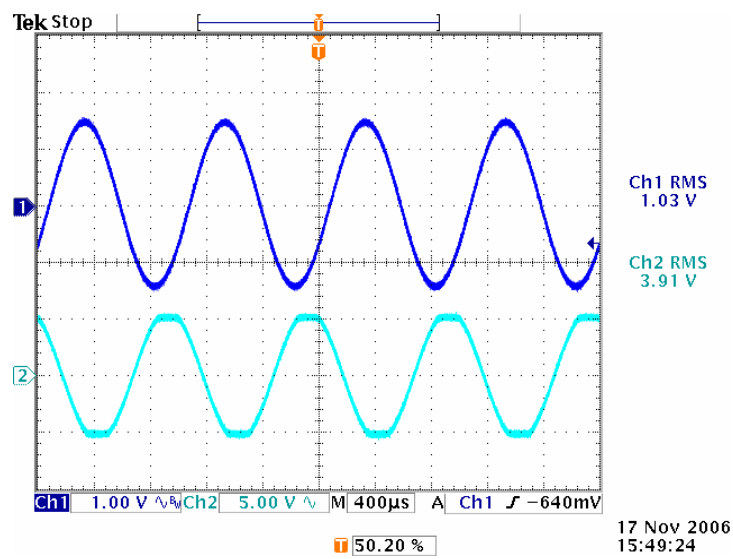
17 Nov 2006
15:35:11

CH1 AV1L IN ; CH2 AV L (Speaker)

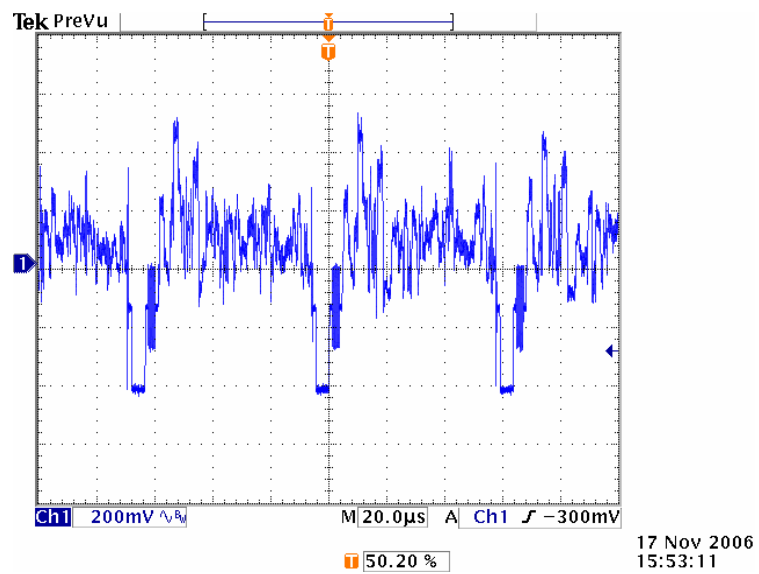


17 Nov 2006
15:49:01

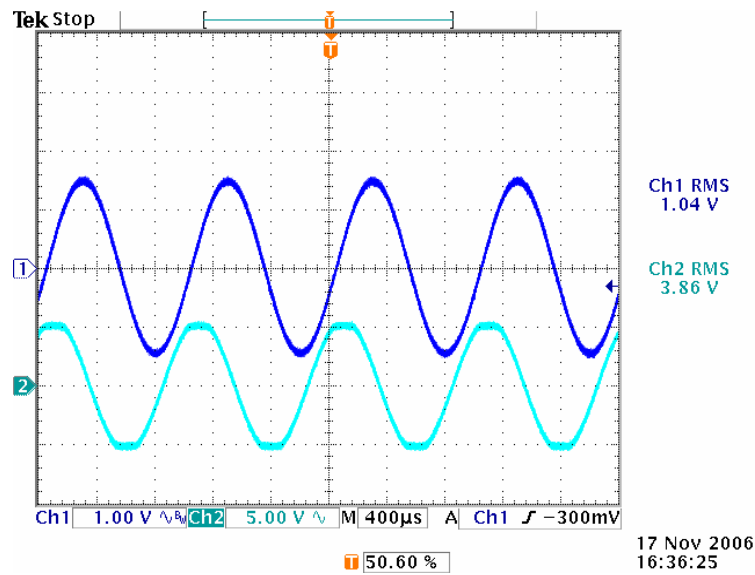
CH1 AV1 IN R ; CH2 AV_R (Speaker)



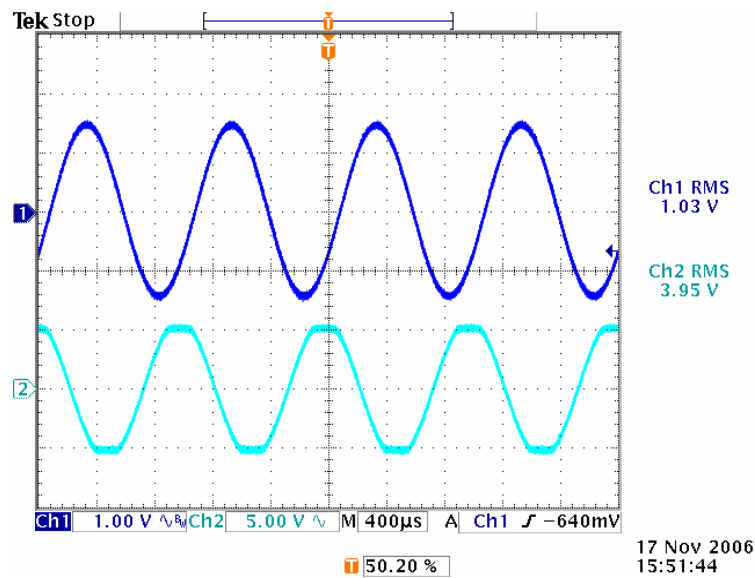
CH1 AV2



CH1 AV2L IN ; CH2 AV L (Speaker)

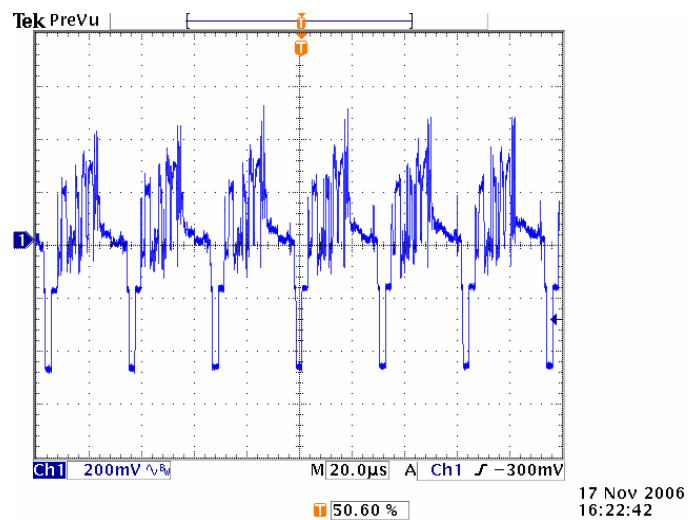


CH1 AV2 IN R ; CH2 AV_R (Speaker)

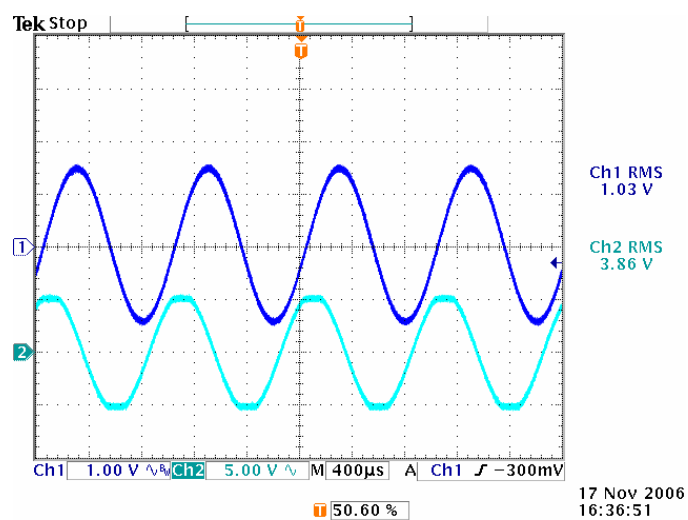


COMPONENT MODE

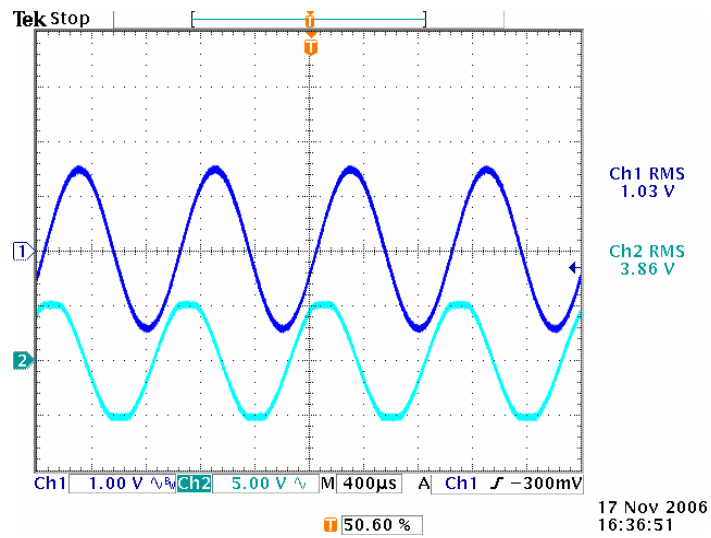
CH1 YPBPR1_Y



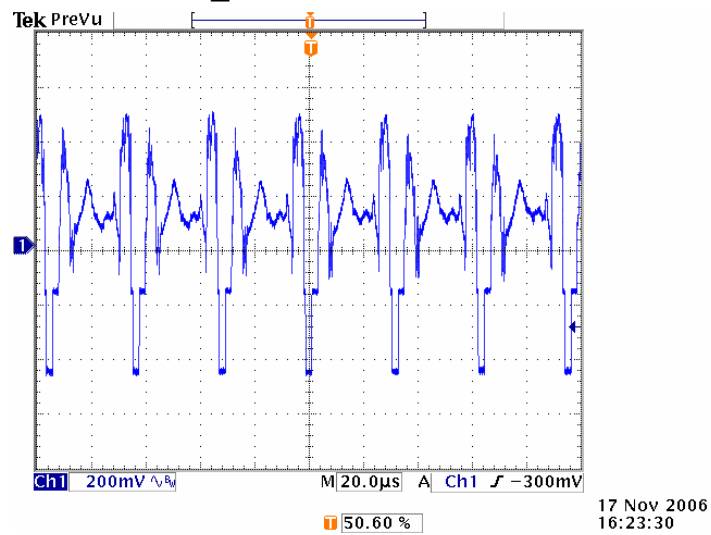
CH1 YPBPR1_L IN CH2 L (Speaker)



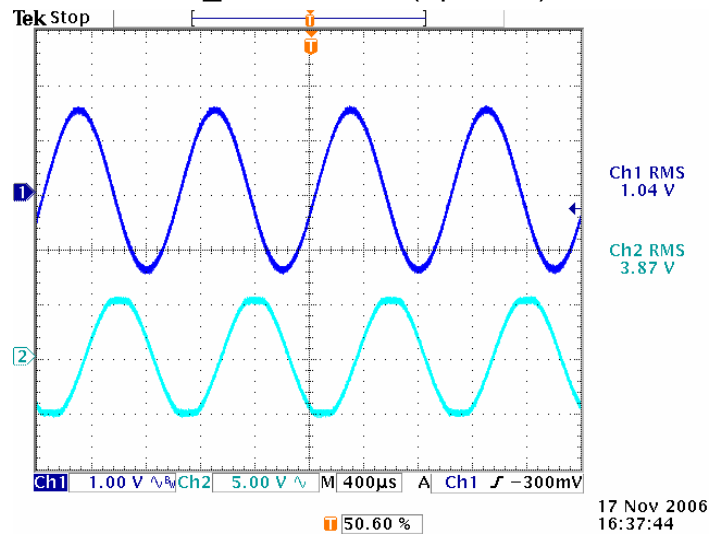
CH1 YPBPR1_R IN CH2 R (Speaker)



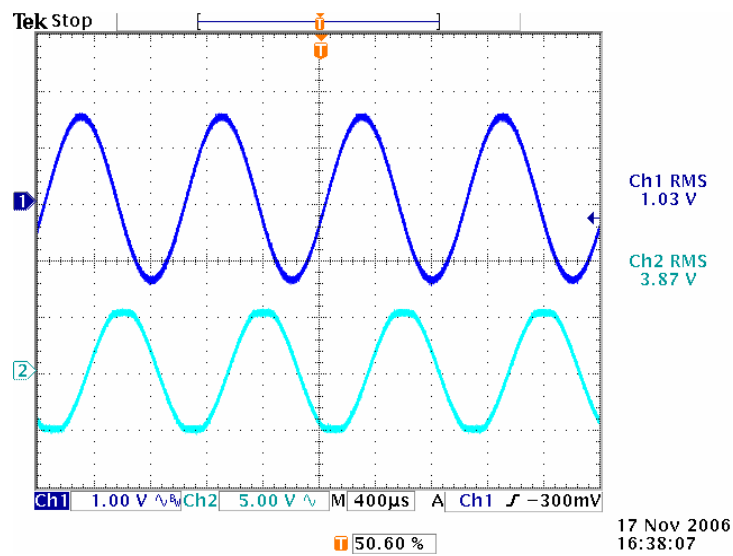
CH1 YPBPR2_Y



CH1 YPBPR2_L IN CH2 L (Speaker)

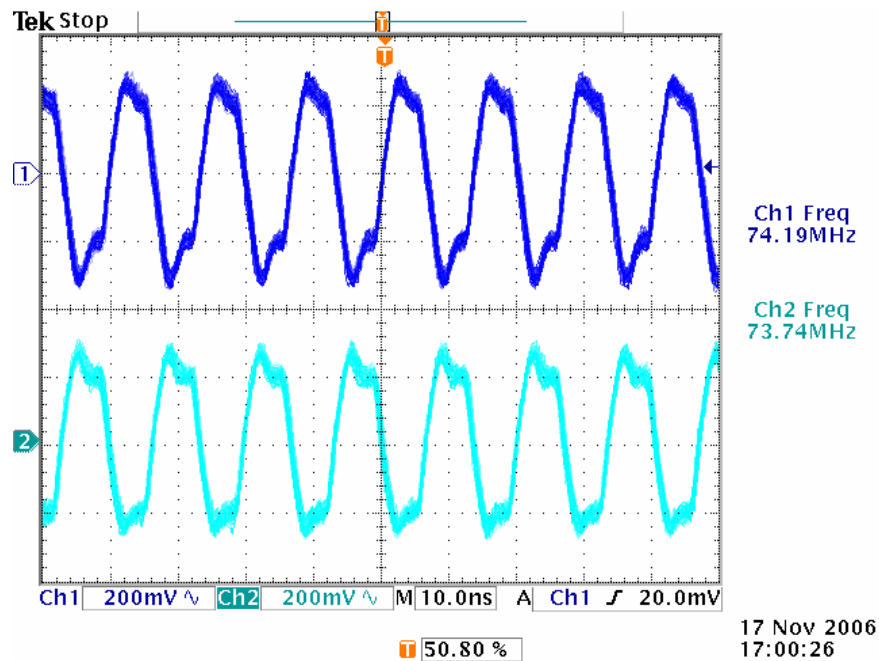


CH1 YPBPR2_R IN CH2 R (Speaker)



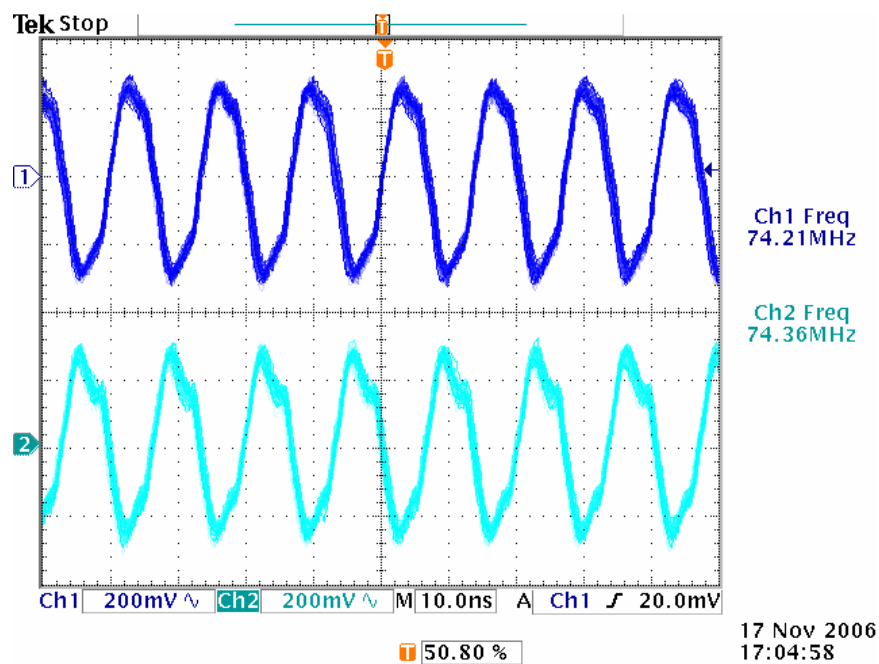
HDMI 1

CH1 RX1; CH2 RX1-B



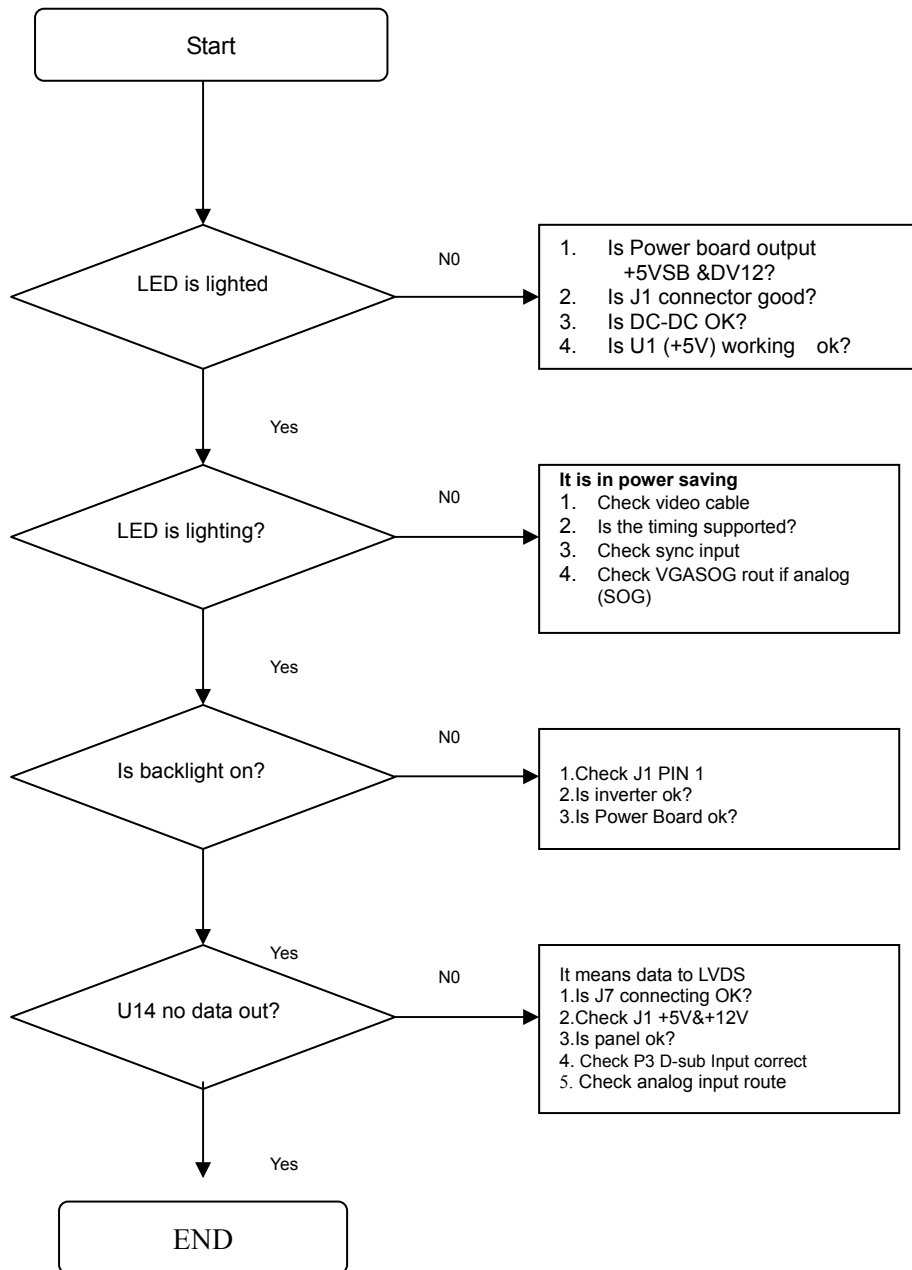
HDMI 2

CH1 RX1; CH2 RX1-B

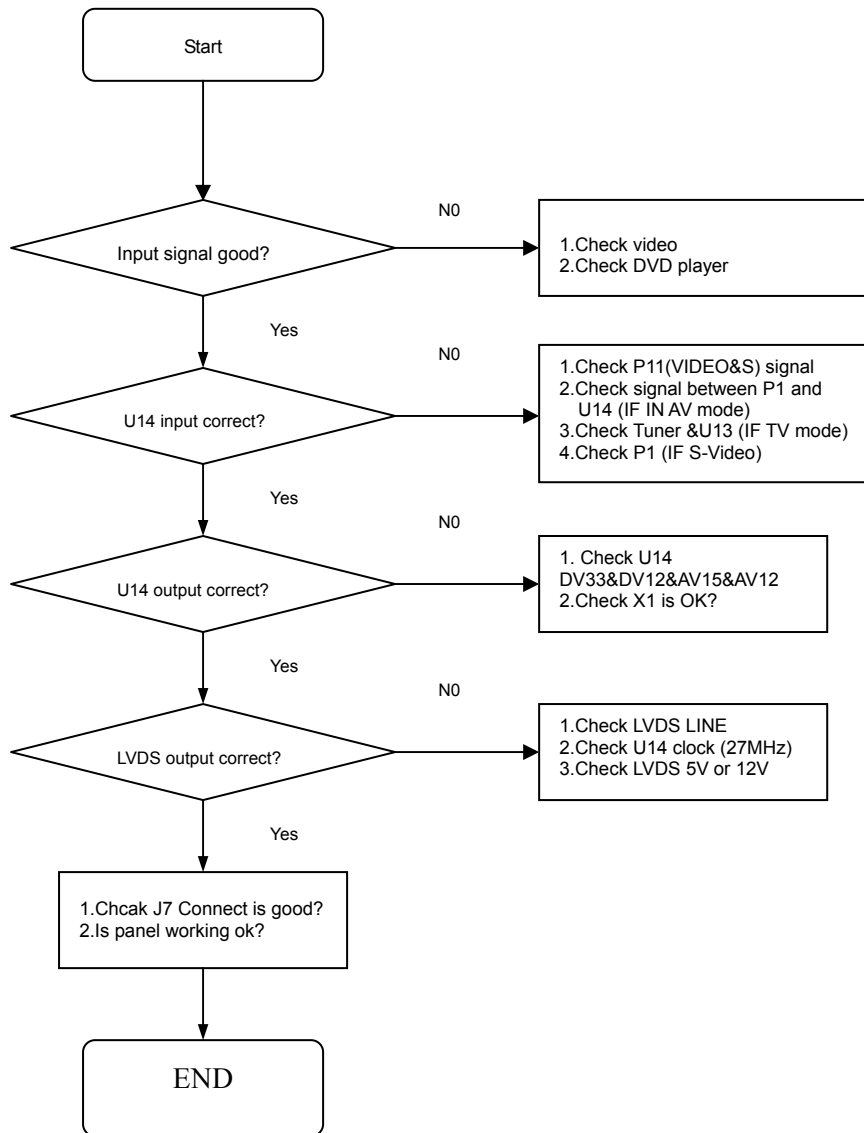


Chapter 9 Trouble shooting

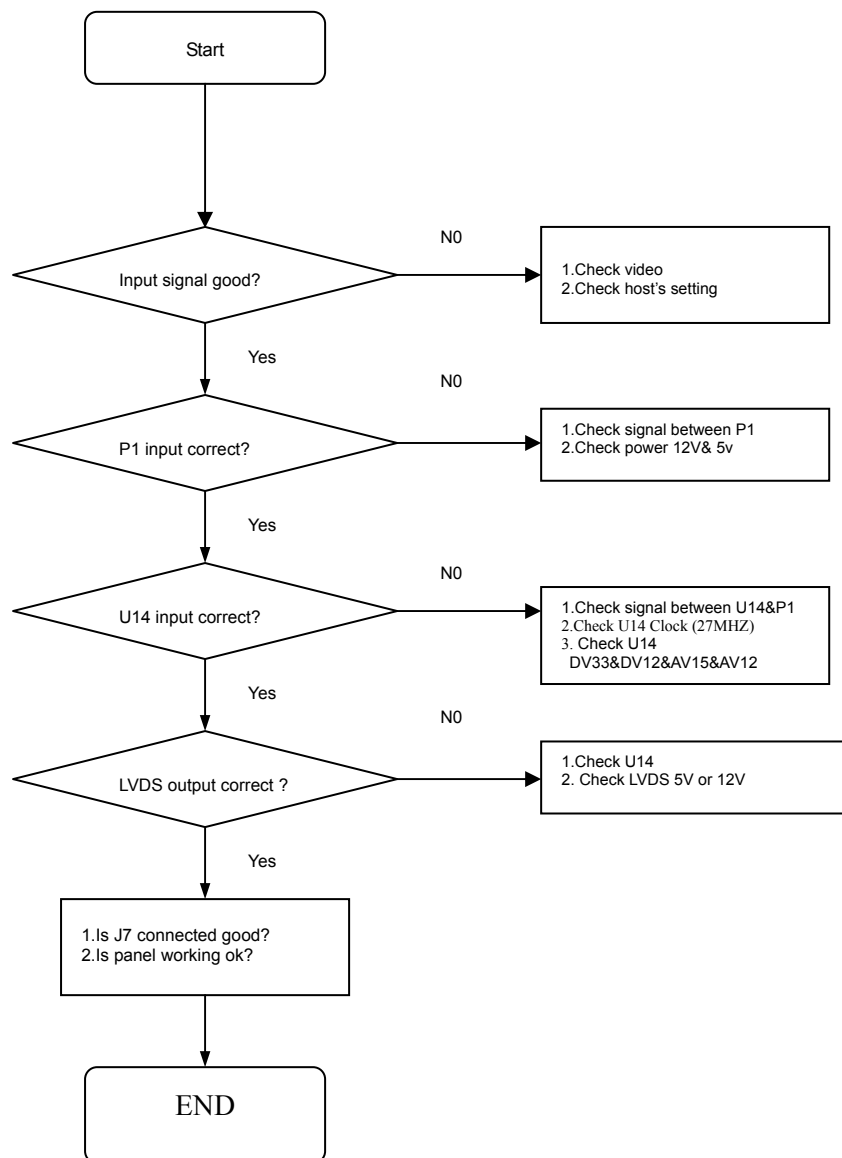
MONITOR DISPLAY NOTHING (PC MODE)



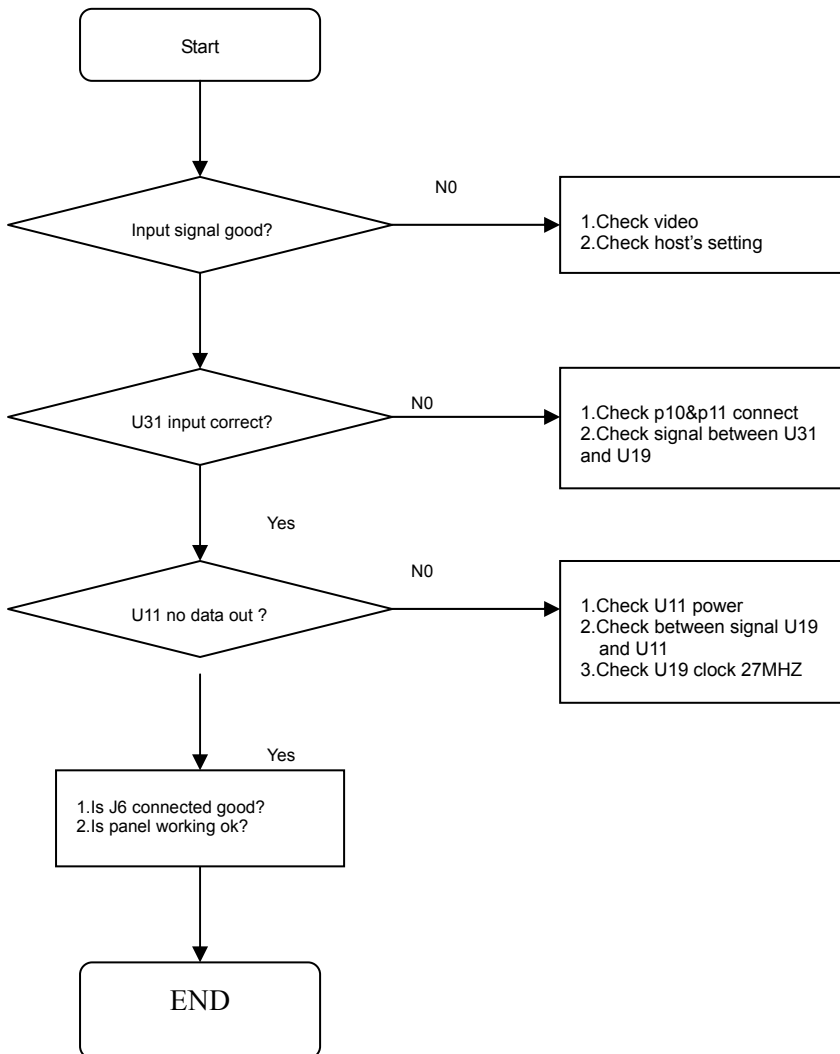
(TV, COMPOSITE VIDEO1,, S-VIDEO) IS NOT DISPLAY CORRECTLY



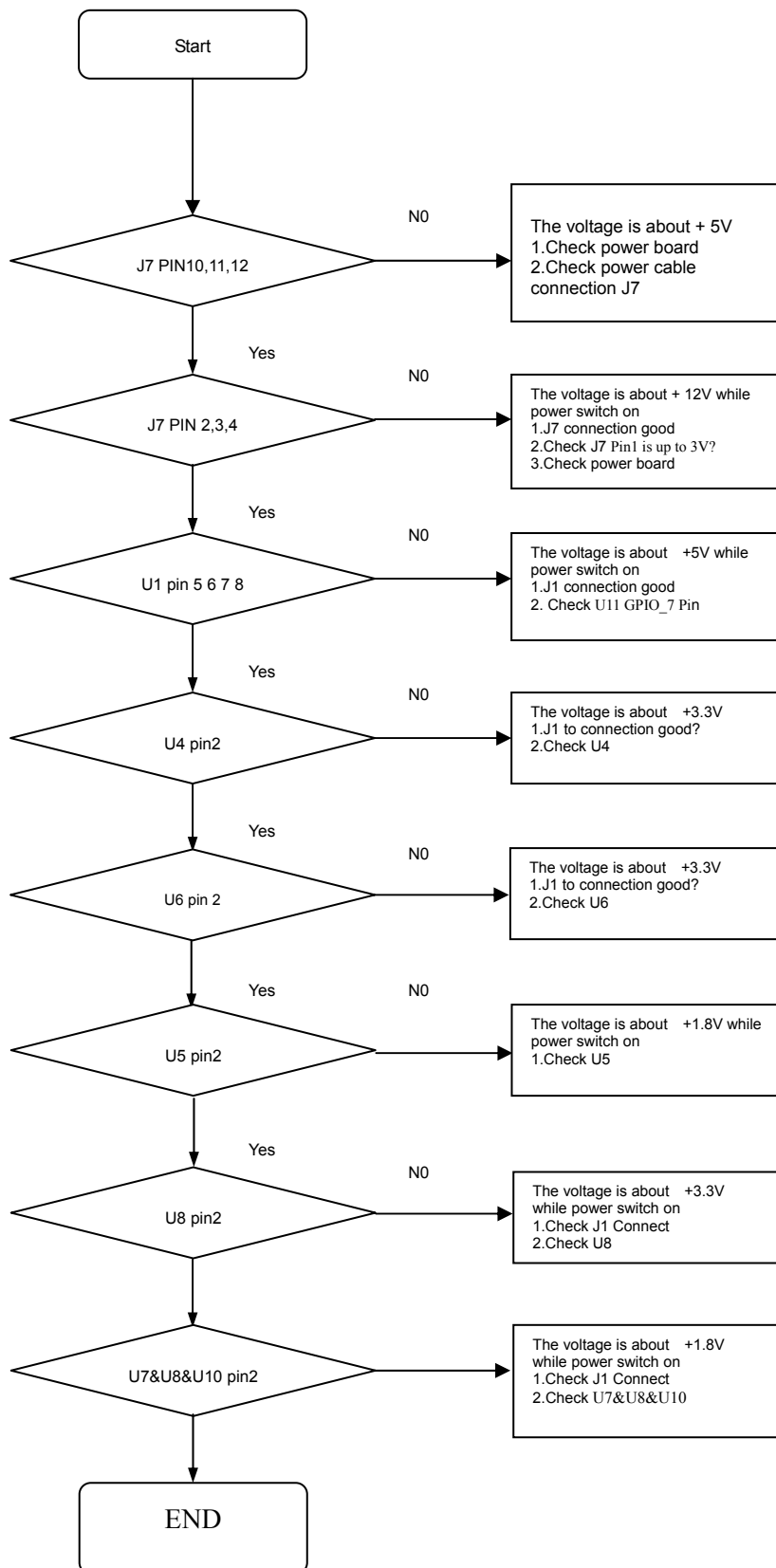
(COMPONENT) IS NOT DISPLAY CORRECTLY



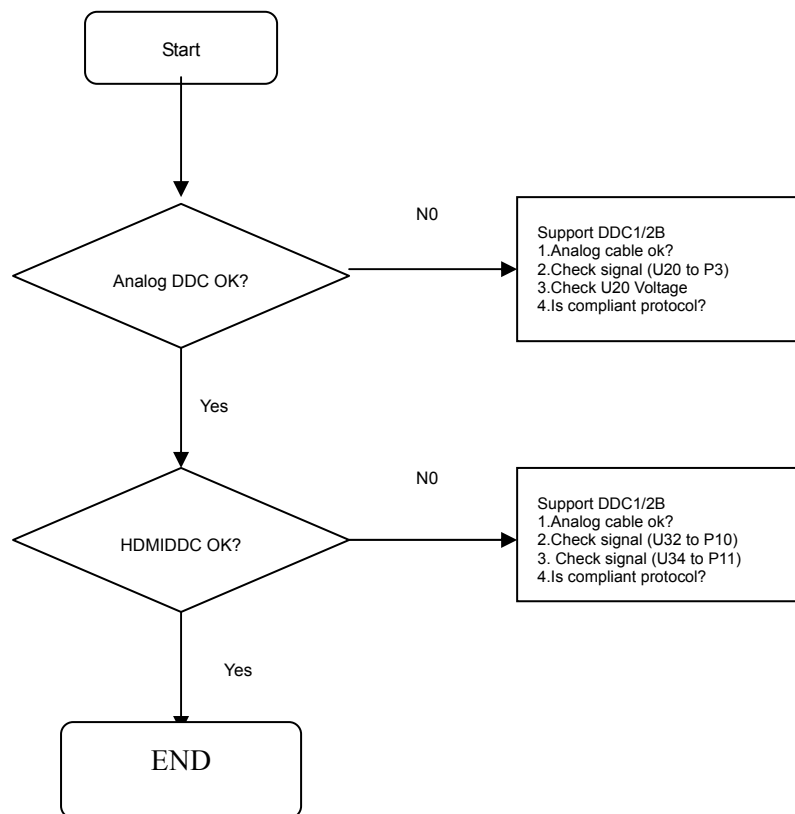
(HDMI) IS NOT DISPLAY CORRECTLY



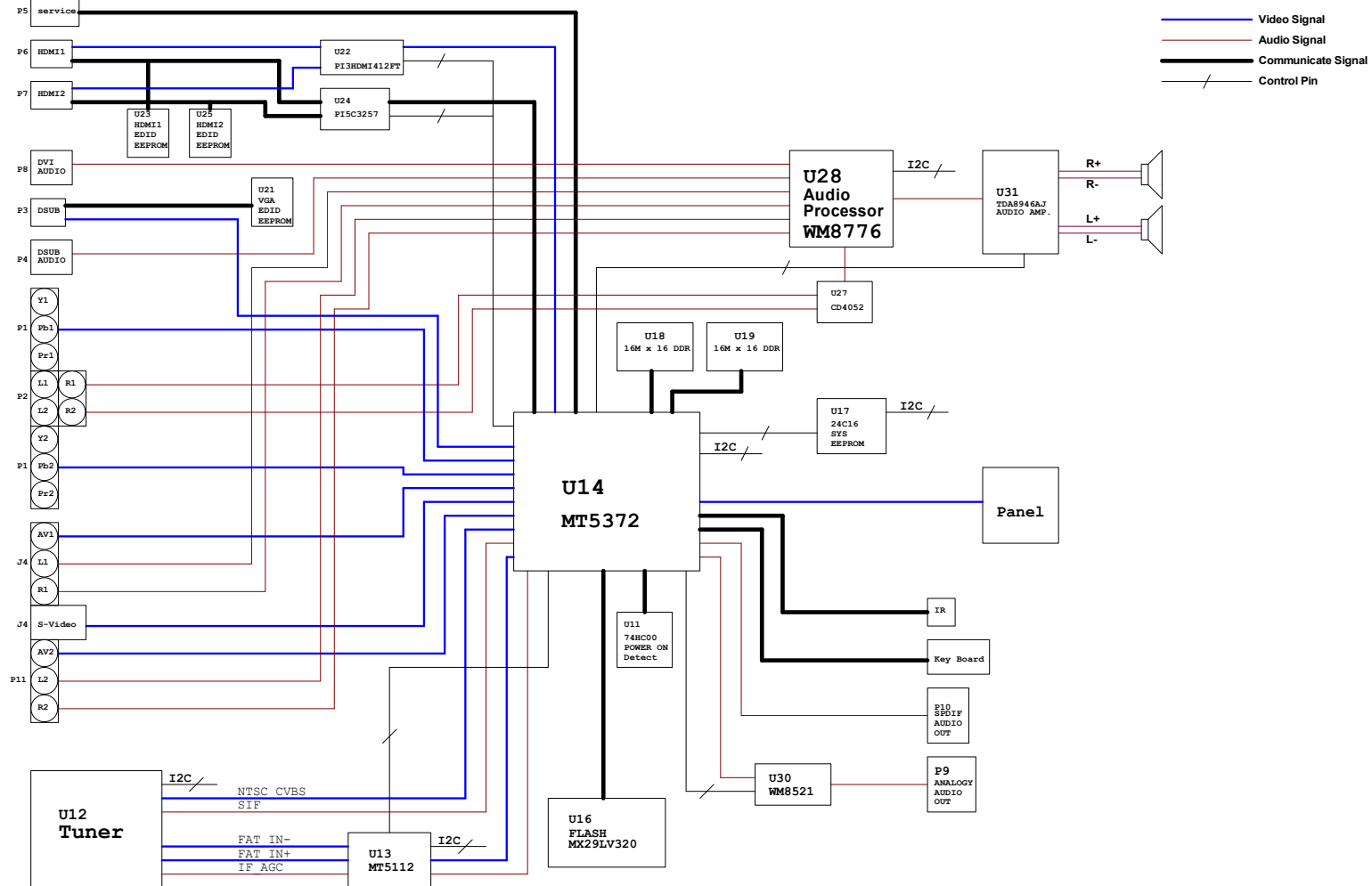
TROUBLE OF DC-DC CONVERTER



TROUBLE OF DDC READING



Main Board Block Diagram



CONFIDENTIAL - DO NOT COPY

Chapter 11 Spare Parts List

| PART NO | DESCRIPTION | LOC | QTY | REMARK |
|----------------|---|--|-----|--------|
| 0185-1302-0073 | FUSE 125V/3A SMD (R451003) LF | F1, F2 | 2 | |
| 0320-4000-0142 | POWER CORD 110V UL/CSA 1800mm BLK N.M. (VINC) | | 1 | |
| 0321-0000-0411 | AV CABLE RCA(Y/W/R) 1800mm BLK (VINC) | | 1 | |
| 0360-1000-0420 | POWER INDUCTOR L:10uH 1.44A 5.8x5.2mm SMD LF | L26 | 1 | |
| 0390-6005-2103 | SCHOTTKY DIODE 0.5A/40V MBR0540T1G SOD-123 LF | D5 | 1 | |
| 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | Q1, Q10, Q11, Q13, Q15, Q16, Q17, Q18, Q19, Q2, Q21, Q22, Q24, Q26, Q3, Q4, Q5, Q8, Q9 | 19 | |
| 0410-5000-5611 | TRANSISTOR PMBS3904 SMD T LF | | | |
| 0410-5000-5710 | TRANSISTOR MMBT3906LT1G SOT-23 L-F | Q12, Q14, Q23, Q25 | 4 | |
| 0410-5000-5711 | TRANSISTOR PMBS3906 SMD LF | | | |
| 0420-1005-4601 | POWER MOS IRF7316TRPBF SMD 8PIN LF | U1, U32 | 2 | |
| 0420-2005-8635 | MOSFET 3.6A 30V AM2343P-T1-PF SOT-23 3PIN LF | QF3 | 1 | |
| 0430-4013-3109 | IC TDA8946AJ 17PIN DIP LF | U31 | 1 | |
| 0430-6006-1079 | IC LDO AP1084KLA ADJ TO-263-3L LF | U10 | 1 | |
| 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | U2, U33, U4, U7, U8, U9 | 6 | |
| 0430-6011-3204 | IC LM7805CT TO-220 3PIN LF | | | |
| 0430-6011-3210 | IC MC7805CTG 3PIN TO-220 LF | U3 | 1 | |
| 0430-6015-6099 | IC RESET STL8110GCL438 4.38V SOT-23 3PIN LF | U15 | 1 | |
| 0430-6015-8079 | IC DC/DC CONVERTER AP1522WA SOT23-5 5PIN LF | U34 | 1 | |
| 0430-7043-1999 | IC DEMODULATOR MT5112BD LQFP 100PIN LF | U13 | 1 | |
| 0430-7043-5092 | IC SWITCH PI5C3257QE QSOP 16PIN LF | U24 | 1 | |
| 0430-7043-6999 | IC SCALER MT5372AJ-L BGA 588PIN LF | U14 | 1 | |
| 0430-7044-1092 | IC SWITCH PI3HDMI412FTZHE TQFN 42PIN LF | U22 | 1 | |
| 0602-3000-0020 | Battery Zn-Carbon 1.5V AA | | 2 | |
| 0980-0304-9150 | Remote control 66700ABA2-038-R LF | | 1 | |
| 1701-0800-2150 | REAR PLATE VIZIO VX32L HDTV | | 1 | |
| 1801-0124-3012 | FRONT BEZEL (VX32L)(ABS, Piano Black) ASS'Y | | 1 | |
| 1801-0214-9010 | REAR COVER (VX32L)(ABS, SONY White) ASS'Y | | 1 | |
| 1925-1000-3800 | EPS FOAM_TL (VW32L HDTV10A) | | 1 | |
| 1925-1000-3810 | EPS FOAM_TR (VW32L HDTV10A) | | 1 | |
| 1925-1000-3820 | EPS FOAM_BL (VW32L HDTV10A) | | 1 | |
| 1925-1000-3830 | EPS FOAM_BR (VW32L HDTV10A) | | 1 | |
| 1925-1100-0230 | PE BAG 320*230*0.04T | | 2 | |
| 1925-1100-0280 | PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1) | | 1 | |
| 1925-1100-2320 | PE BAG (VX32L HDTV) | | 1 | |
| 1925-1200-7080 | ACCESSARY BOX (330W*230D*50H) | | 1 | |
| 1925-1200-9500 | CARTON TRAY (VW32L HDTV10A) | | 1 | |
| 1925-1200-9780 | CARTON VIZIO VX32L HDTV10A | | 1 | |
| 1925-1300-7081 | Brochure VIZIO Series | | 1 | |
| 1925-1300-8280 | MANUAL VIZIO VX32L HDTV10A | | 1 | |
| 1925-1300-8290 | QUICK START GUIDE VIZIO VX32L HDTV10A | | 1 | |
| 1925-1400-2711 | Register CARD VIZIO Series | | 1 | |
| 1925-1400-3411 | Warranty & Repair Sheet VIZIO | | 1 | |
| 1925-1900-0610 | CARTON JOINT (TM-32V) | | 4 | |
| 1925-2000-0030 | Polishing Cloth VIZIO P42 HDTV10A | | 1 | |
| 1936-1100-9121 | B/C LBL VIZIO VX32L HDTV10A | | 1 | |
| 1936-1300-1550 | SERIAL NO.LBL byd:sign | | 1 | |
| 1936-1600-1180 | TECHNOLOGY LOGO LBL VIZIO VX20L/32/37 HDTV | | 1 | |
| 1947-1200-0310 | ACETATE CLOTH TAPE (醋酸布膠帶) 27*75mm | | 1 | |
| 1947-1200-0400 | ACETATE CLOTH TAPE (醋酸布膠帶) 20*45mm | | 21 | |
| 1947-1200-0820 | ACETATE CLOTH TAPE (醋酸布膠帶) 60*45mm | | 1 | |
| 1947-1200-1560 | FILAMENT TAPE (TIBON 25wide) | | 0.7 | |

| PART NO | DESCRIPTION | LOC | QTY | REMARK |
|----------------|--------------------------------------|-----|-----|--------|
| 1947-1200-3680 | ACETATE CLOTH TAPE (醋酸布膠帶) 40*80mm | | 1 | |
| 1947-1200-3870 | MYLAR (18.0*28.0*0.6t)(VX32L) | | 1 | |
| 1947-1200-3900 | SPONGE (22.0L*55.0W*0.6t) | | 6 | |
| 1947-1700-0130 | SHIELDING AL.TAPE (70.0*50.0) | | 2 | |
| 1947-1800-0030 | GASKET BLOCK (10W*17H*60L) | | 6 | |
| 1947-1800-0080 | GASKET BLOCK (17*34*25mm) (773GT) | | 2 | |
| 1947-1800-0460 | GASKET BLOCK (3.0H*10.0W*100.0L mm) | | 2 | |
| 1947-1900-0030 | HEATPATH (25x14mm) | | 1 | |
| 3632-0012-0156 | DISPLAY BD ASS'Y VX32L HDTV | | 1 | |
| 3632-0022-0146 | CONNECTOR BD ASS'Y VX32L HDT | | 1 | |
| 3632-0102-0150 | MAIN BD ASS'Y VX32L HDTV_LG_ | | 1 | |
| 3642-0022-0189 | IR BD ASS'Y GV42L HDTV | | 1 | |

Chapter 12 Complete Parts List

963285006053 LCD TV MONITOR 32" VX32L HDTV10A_LC320W01-SL01(ABS)

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | | 3632-0092-0312 | PACKING ASS'Y VX32L HDTV10A | 1 |
| 2 | | | 3632-0132-0331 | PANEL ASS'Y VX32L HDTV10A_LC320W01-SL01 (ABS,433C) | 1 |

3632-0092-0312 PACKING ASS'Y VX32L HDTV10A

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | | 1701-0800-2150 | REAR PLATE VIZIO VX32L HDTV | 1 |
| 2 | | | 1925-1000-3800 | EPS FOAM_TL (VW32L HDTV10A) | 1 |
| 3 | | | 1925-1000-3810 | EPS FOAM_TR (VW32L HDTV10A) | 1 |
| 4 | | | 1925-1000-3820 | EPS FOAM_BL (VW32L HDTV10A) | 1 |
| 5 | | | 1925-1000-3830 | EPS FOAM_BR (VW32L HDTV10A) | 1 |
| 6 | | | 1925-1100-2320 | PE BAG (VX32L HDTV) | 1 |
| 7 | | | 1925-1200-9500 | CARTON TRAY (VW32L HDTV10A) | 1 |
| 8 | | | 1925-1200-9780 | CARTON VIZIO VX32L HDTV10A | 1 |
| 9 | | | 1925-1900-0610 | CARTON JOINT (TM-32V) | 4 |
| 10 | | | 1936-1100-9121 | B/C LBL VIZIO VX32L HDTV10A | 1 |
| 11 | | | 1936-1300-1550 | SERIAL NO.LBL byd:sign | 1 |
| 12 | | | 1936-1600-1180 | TECHNOLOGY LOGO LBL VIZIO VX20L/32/37 HDTV | 1 |
| 13 | | | 1947-1200-1560 | FILAMENT TAPE (TIBON 25wide) | 0.7 |
| 14 | | | 3632-0072-0393 | ACCESSARY ASS'Y VX32L HDTV10A | 1 |

3632-0132-0331 PANEL ASS'Y VX32L HDTV10A_LC320W01-SL01 (ABS,433C)

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | | 0211-0320-1261 | LCD MODULE 32.0" LC320W01-SL01 (LG.PHILIPS)(China) | 1 |
| 2 | SS | | 0211-0320-1361 | LCD MODULE 32.0" LC320W01-SL01 (LG.PHILIPS)(Korea) | |
| 3 | | | 0260-0000-0221 | AC INLET +VHR5P 1617#22 500mm 1015#18 100mm +TUBE | 1 |
| 4 | | | 0335-1008-0160 | SPEAKER 10W 8ohm(126*56*55) +Wire 870/570mm (L,R) | 1 |
| 5 | | | 0460-1004-0330 | WH PH4P-PH4P 1061#26 130mm LF | 1 |
| 6 | | | 0460-1012-0260 | WH A2001H02-12P/A2001H02-12P 1061#26 150mm | 1 |
| 7 | | | 0460-3010-0180 | WH A1251H02-10P/A1251H02-10P 1571#28 350mm | 1 |
| 8 | | | 0460-3430-1000 | WH P240430/FI-X30H 20276#30 220mm+ 吸波材 *2 | 1 |
| 9 | | | 0460-4012-0020 | WH A2543H12P-PH12P 1007#24 300mm | 1 |
| 10 | | | 0460-4012-0170 | WH A2543H00-12P/A2001H02-12P 1007#24 600mm | 1 |
| 11 | | | 0460-4013-0070 | WH A2543H13P-PH13P 1007#24 350mm CORE | 1 |
| 12 | | | 0500-0507-0240 | POWER BD ASS'Y DPS-199AP L-F | 1 |
| 13 | SS | | 0500-0502-0180 | POWER BD ASS'Y 0601D03200 | |
| 14 | | | 0950-0000-0010 | License: Dolbly-AC3 Two-Channel Dolby Digital Deco | 1 |
| 15 | | | 0950-0000-0020 | License: MPEG-LA Consumer Products | 1 |
| 16 | | | 0950-0000-0030 | License: HDMI | 1 |
| 17 | | | 0960-0000-0100 | SOFTWARE MTK HDCP KEY w/mask CODE (China) | 1 |
| 18 | | | 0980-0700-0071 | LED BACKLIGHT 18*50 LYSB-4916W/SY-E 400mm | 1 |
| 19 | | | 1701-0524-8020 | BASE (VX37L HDTV10A)(ABS,SILVER) | 1 |
| 20 | | | 1701-1000-0430 | BASE FOOT (TM-32V) | 6 |
| 21 | | | 1701-1500-0690 | WIRE SADDLE (CH-14) | 2 |
| 22 | | | 1701-1500-1660 | SPACER SUPPORT (DCB-6.5) | 1 |
| 23 | | | 1701-1933-2010 | SIDE JACK COVER (VX32L_LG)(ABS, SONY White) | 1 |
| 24 | | | 1712-0100-4590 | HEAT SINK FIX MTEAL (TM-30A) | 1 |
| 25 | | | 1712-0101-0561 | MAIN SHIELD (VX32L HDTV10A) | 1 |
| 26 | | | 1712-0101-0590 | WALL MOUNT SUPPORT (VX32L) | 4 |
| 27 | | | 1712-0101-0620 | BRACKET FOR AC SOCKET (VX32L HDTV) | 1 |
| 28 | | | 1712-0101-1150 | BKT FOR SUPPORT (VX32L) | 2 |
| 29 | | | 1712-0101-1160 | CHASSIS (VX32L_LG) | 1 |
| 30 | | | 1712-0101-1170 | PANEL HOLDER_L (VX32L_LG) | 1 |
| 31 | | | 1712-0101-1180 | PANEL HOLDER_R (VX32L_LG) | 1 |
| 32 | | | 1712-0400-1920 | HEAT SINK (VX37L HDTV) | 1 |
| 33 | | | 1720-0003-0620 | MAC. SCREW-MB M3.0*6.0L,Ni | 20 |
| 34 | | | 1720-0004-1020 | MAC. SCREW-MB M4.0*10.0L Ni | 11 |
| 35 | | | 1720-1204-0820 | MAC. SCREW-MPGW M4.0*8.0L,Ni | 1 |
| 36 | | | 1720-1503-0620 | MAC.SCREW-MPSWF M3.0*6.0L Ni | 18 |
| 37 | | | 1720-1504-0820 | MAC. SCREW-MPSWF M4.0*8.0L,NI | 16 |
| 38 | | | 1720-3003-0820 | MAC.SCREW-MF M3.0*8.0L,NI | 2 |
| 39 | | | 1720-7344-0820 | MAC. SCREW-MHSW #4-40*8.0L,Ni | 2 |
| 40 | | | 1721-0003-0820 | TAP. SCREW-TB #3.0*8.0L,NI | 11 |
| 41 | | | 1721-0004-0820 | TAP. SCREW-TP #4.0*8.0L,NI | 15 |
| 42 | | | 1721-0004-1050 | TAP. SCREW-TP #4.0*10.0L, BLK-Ni | 6 |
| 43 | | | 1721-0004-1650 | TAP. SCREW-TP #4.0*16.0L, BLK-Ni | 8 |

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 44 | | | 1721-3003-0920 | TAP. SCREW-MF M3.0*9.0L, Ni | 2 |
| 45 | | | 1721-4104-1220 | TAP. SCREW-TRF #4.0*12.0L,Ni | 6 |
| 46 | | | 1801-0124-3012 | FRONT BEZEL (VX32L)(ABS, Piano Black) ASS'Y | 1 |
| 47 | | | 1801-0214-9010 | REAR COVER (VX32L)(ABS,SONY White) ASS'Y | 1 |
| 48 | | | 1947-1200-0310 | ACETATE CLOTH TAPE (醋酸布膠帶) 27*75mm | 1 |
| 49 | | | 1947-1200-0400 | ACETATE CLOTH TAPE (醋酸布膠帶) 20*45mm | 21 |
| 50 | | | 1947-1200-0820 | ACETATE CLOTH TAPE (醋酸布膠帶) 60*45mm | 1 |
| 51 | | | 1947-1200-3680 | ACETATE CLOTH TAPE (醋酸布膠帶) 40*80mm | 1 |
| 52 | | | 1947-1200-3870 | MYLAR (18.0*28.0*0.6t)(VX32L) | 1 |
| 53 | | | 1947-1200-3900 | SPONGE (22.0L*55.0W*0.6t) | 6 |
| 54 | | | 1947-1700-0130 | SHIELDING AL.TAPE (70.0*50.0) | 2 |
| 55 | | | 1947-1800-0030 | GASKET BLOCK (10W*17H*60L) | 6 |
| 56 | | | 1947-1800-0080 | GASKET BLOCK (17*34*25mm) (773GT) | 2 |
| 57 | | | 1947-1800-0460 | GASKET BLOCK (3.0H*10.0W*100.0L mm) | 2 |
| 58 | | | 1947-1900-0030 | HEATPATH (25x14mm) | 1 |
| 59 | | | 3632-0012-0156 | DISPLAY BD ASS'Y VX32L HDTV | 1 |
| 60 | | | 3632-0022-0146 | CONNECTOR BD ASS'Y VX32L HDTV | 1 |
| 61 | | | 3632-0102-0150 | MAIN BD ASS'Y VX32L HDTV_LG_New (HDCP) | 1 |
| 62 | | | 3642-0022-0189 | IR BD ASS'Y GV42L HDTV | 1 |

3632-0012-0156 DISPLAY BD ASS'Y VX32L HDTV

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|---------------|---------------------------------|-----|
| 1 | | | 363200120156M | DISPLAY BD ASS'Y VX32L HDTV MI | 1 |
| 2 | | | 363200120156S | DISPLAY BD ASS'Y VX32L HDTV SMD | 1 |

3632-0022-0146 CONNECTOR BD ASS'Y VX32L HDTV

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | | 0171-3871-0172 | PCB CONN. BD FR4 80*22*1.6t D (VX32L HDTV)(1:10) | 1 |
| 2 | | JC1 | 0451-2000-1266 | WAFER 2.0mm 12P 90° DIP KINK (M242612R) L-F | 1 |
| 3 | | JC2 | 0300-3041-0090 | S-VIDEO 4PIN 90° (2MJ-0602-005) L-F | 1 |
| 4 | | JC3 | 0302-9030-0114 | RCA JACK 1ROW 3I/O (Y-W-R) L-F | 1 |
| 5 | | LC1 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | 1 |

3632-0072-0393 ACCESSARY ASS'Y VX32L HDTV10A

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 1 | | | 0320-4000-0142 | POWER CORD 110V UL/CSA 1800mm BLK N.M. (VINC) | 1 |
| 2 | | | 0321-0000-0411 | AV CABLE RCA(Y/W/R) 1800mm BLK (VINC) | 1 |
| 3 | | | 0602-3000-0020 | Battery Zn-Carbon 1.5V AA | 2 |
| 4 | | | 0980-0304-9150 | Remote control 66700ABA2-038-R LF | 1 |
| 5 | | | 1925-1100-0230 | PE BAG 320*230*0.04T | 2 |
| 6 | | | 1925-1100-0280 | PE BAG (180W*290L*0.04t)(PE-LD)(ACC.-1) | 1 |
| 7 | | | 1925-1200-7080 | ACCESSARY BOX (330W*230D*50H) | 1 |
| 8 | | | 1925-1300-7081 | Brochure VIZIO Series | 1 |
| 9 | | | 1925-1300-8280 | MANUAL VIZIO VX32L HDTV10A | 1 |
| 10 | | | 1925-1300-8290 | QUICK START GUIDE VIZIO VX32L HDTV10A | 1 |
| 11 | | | 1925-1400-2711 | Register CARD VIZIO Series | 1 |
| 12 | | | 1925-1400-3411 | Warranty & Repair Sheet VIZIO | 1 |
| 13 | | | 1925-2000-0030 | Polishing Cloth VIZIO P42 HDTV10A | 1 |

3632-0102-0150 MAIN BD ASS'Y VX32L HDTV_LG_New (HDCP)

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|---------------|-------------------------------------|-----|
| 1 | | | 363201020150A | MAIN BD ASS'Y VX32L HDTV LG New AI | 1 |
| 2 | | | 363201020150M | MAIN BD ASS'Y VX32L HDTV_LG_New MI | 1 |
| 3 | | | 363201020150S | MAIN BD ASS'Y VX32L HDTV_LG_New SMD | 1 |

3642-0022-0189 IR BD ASS'Y GV42L HDTV

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|---------------|----------------------------|-----|
| 1 | | | 364200220189M | IR BD ASS'Y GV42L HDTV MI | 1 |
| 2 | | | 364200220189S | IR BD ASS'Y GV42L HDTV SMD | 1 |

363200120156M DISPLAY BD ASS'Y VX32L HDTV MI

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | CON1 | 0451-1250-1066 | WAFER 1.25mm 10P 90' DIP KINK (M240110R) L-F | 1 |
| 2 | SS | | 0451-1250-1063 | WAFER 1.25mm 10P 90' KINK (A1251WR0-10P) L-F | |
| 3 | | CON3 | 0451-1250-0366 | WAFER 1.25mm 3P 90' DIP KINK (M24013R) L-F | 1 |
| 4 | SS | | 0451-1250-0363 | WAFER 1.25mm 3P 90' KINK (A1251WR0-3P) L-F | |
| 5 | | J2 | 0451-2000-0466 | WAFER 2.0mm 4P 90' DIP KINK (M24264R) L-F | 1 |
| 6 | SS | | 0451-2003-0463 | WAFER 2.00mm 4P 90' KINK (A2001WR2-4P) L-F | |
| 7 | | SW1 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |
| 8 | | SW2 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |
| 9 | | SW3 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |
| 10 | | SW4 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |
| 11 | | SW5 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |
| 12 | | SW6 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |
| 13 | | SW7 | 0220-7020-0130 | SW TACT 6*6mm 180' 160g SFKHHAM2525 L-F | 1 |

363200120156S DISPLAY BD ASS'Y VX32L HDTV SMD

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | | 0174-1770-1791 | PCB DISPLAY BD K1 150*25*1.6t (VX32L HDTV)(1:10) | 1 |
| 2 | | CD1 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 3 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 4 | | CD2 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 5 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 6 | | CD3 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 7 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 8 | | CD4 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 9 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 10 | | RD1 | 0130-0000-1859 | RES. CF 0.0ohm 1/8W J 1206 | 1 |
| 11 | | RD10 | 0130-0000-1859 | RES. CF 0.0ohm 1/8W J 1206 | 1 |
| 12 | | RD11 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | 1 |
| 13 | | RD12 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | 1 |
| 14 | | RD13 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | 1 |
| 15 | | RD14 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | 1 |
| 16 | | RD15 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |
| 17 | | RD16 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |
| 18 | | RD17 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |
| 19 | | RD2 | 0130-2401-1654 | RES. CF 2.4 Kohm 1/16W J 0402 | 1 |
| 20 | | RD3 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | 1 |
| 21 | | RD4 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | 1 |
| 22 | | RD5 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | 1 |
| 23 | | RD6 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | 1 |
| 24 | | RD7 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |
| 25 | | RD8 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |

363201020150A MAIN BD ASS'Y VX32L HDTV_LG_New AI

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|---------------------------------------|-----|
| 1 | | CE1 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 2 | | CE10 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 3 | | CE11 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 4 | | CE12 | 0103-6471-1312 | E/C HF 470uF 25V 105°C (10*16mm) | 1 |
| 5 | | CE13 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 6 | | CE14 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 7 | | CE15 | 0103-6471-1312 | E/C HF 470uF 25V 105°C (10*16mm) | 1 |
| 8 | | CE16 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 9 | | CE17 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 10 | | CE18 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 11 | | CE19 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 12 | | CE2 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 13 | | CE20 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 14 | | CE21 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 15 | | CE22 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 16 | | CE23 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 17 | | CE24 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 18 | | CE25 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 19 | | CE26 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 20 | | CE27 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 21 | | CE3 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 22 | | CE31 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 23 | | CE32 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 24 | | CE33 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 25 | | CE34 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 26 | | CE35 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 27 | | CE36 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 28 | | CE37 | 0103-1471-1211 | E/C VZ 470uF 16V 105°C F-T (8*11.5mm) | 1 |
| 29 | | CE38 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 30 | | CE4 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 31 | | CE40 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 32 | | CE41 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 33 | | CE42 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 34 | | CE43 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 35 | | CE44 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 36 | | CE45 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 37 | | CE46 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 38 | | CE47 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 39 | | CE48 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 40 | | CE49 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 41 | | CE5 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 42 | | CE50 | 0103-1471-1211 | E/C VZ 470uF 16V 105°C F-T (8*11.5mm) | 1 |
| 43 | | CE51 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |

| ITEM | M/S | LOCATION | PART NO. | DESCRIPTION | QTY |
|------|-----|----------|----------------|---------------------------------------|-----|
| 44 | | CE52 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 45 | | CE53 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 46 | | CE54 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 47 | | CE55 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 48 | | CE56 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 49 | | CE57 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 50 | | CE58 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 51 | | CE59 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 52 | | CE6 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 53 | | CE60 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 54 | | CE62 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 55 | | CE64 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 56 | | CE65 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 57 | | CE66 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 58 | | CE67 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 59 | | CE7 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 60 | | CE72 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 61 | | CE75 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 62 | | CE78 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 63 | | CE79 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 64 | | CE8 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 65 | | CE81 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 66 | | CE82 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 67 | | CE83 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 68 | | CE84 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 69 | | CE87 | 0103-6102-1212 | E/C HF 1000uF 16V 105°C F (10*20) | 1 |
| 70 | SS | | 0103-6102-1210 | E/C HF 1000uF 16V 105°C N-F (10*20) | |
| 71 | | CE88 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 72 | | CE89 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 73 | | CE9 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 74 | | CE90 | 0103-1220-1511 | E/C VT 22uF 50V 105°C F-T (5*11mm) | 1 |
| 75 | | CE91 | 0103-1221-1311 | E/C VT 220uF 25V 105°C F-T (8*11.5mm) | 1 |
| 76 | | C159 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 77 | | C160 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 78 | | C161 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |
| 79 | | C33 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 80 | | C34 | 0103-1101-1211 | E/C VZ 100uF 16V 105°C F-T (5*11mm) | 1 |
| 81 | | C38 | 0103-1100-1511 | E/C VT 10uF 50V 105°C F-T (5*11mm) | 1 |

363201020150M MAIN BD ASS'Y VX32L HDTV_LG_New MI

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 1 | | J1 | 0451-2000-1366 | WAFER 2.0mm 13P 90' DIP KINK (M242613R) L-F | 1 |
| 2 | SS | | 0451-2003-1363 | WAFER 2.00mm 13P 90' KINK (A2001WR2-13P) L-F | |
| 3 | | J2 | 0451-1250-1066 | WAFER 1.25mm 10P 90' DIP KINK (M240110R) L-F | 1 |
| 4 | SS | | 0451-1250-1063 | WAFER 1.25mm 10P 90' KINK (A1251WR0-10P) L-F | |
| 5 | | J4 | 0451-2000-1266 | WAFER 2.0mm 12P 90' DIP KINK (M242612R) L-F | 1 |
| 6 | SS | | 0451-2003-1263 | WAFER 2.00mm 12P 90' KINK (A2001WR2-12P) L-F | |
| 7 | | J6 | 0451-2500-0446 | WAFER 2.5mm 4P 90' DIP KINK (M241854R) L-F | 1 |
| 8 | SS | | 0451-2500-0443 | WAFER 2.50mm 4P 90' KINK (A2501WR2-4P) L-F | |
| 9 | | L11 | 0361-2022-0030 | COIL CHOKE 22UH 2.9A 11*12 DIP TSL1112RA-220K2R9-PF | 1 |
| 10 | | L68 | 0370-0000-1011 | FERRITE CORE RH 3.5X6X1.0(W)X2 L-F | 1 |
| 11 | | L8 | 0361-2022-0030 | COIL CHOKE 22UH 2.9A 11*12 DIP TSL1112RA-220K2R9-PF | 1 |
| 12 | | P1 | 0302-9060-0020 | RCA JACK 2ROW 6I/O (G-B-R) | 1 |
| 13 | | P10 | 0300-6400-0031 | OPTO CONN. Transmitter (134-0029-399A) L-F | 1 |
| 14 | | P11 | 0302-9030-0114 | RCA JACK 1ROW 3I/O (Y-W-R) L-F | 1 |
| 15 | | P2 | 0302-9040-0010 | RCA JACK 2ROW 4I/O 90' (W-R) L-F | 1 |
| 16 | SS | | 0302-9040-0011 | RCA JACK 2ROW 4I/O 90' (W-R) (MKC21-4313N) L-F | |
| 17 | | P3 | 0300-1205-3151 | D-SUB FEMALE 90' 15P 3ROW (DV11201-H5R6-4F) L-F | 1 |
| 18 | | P4 | 0302-0350-0012 | PHONE JACK 3.5 ϕ 5P 90' +SHIELD L-F | 1 |
| 19 | | P5 | 0202-6000-0003 | RJ11 6P6C Gray UNDER CONTACT L-F | 1 |
| 20 | | P8 | 0302-9020-0114 | RCA JACK 2ROW 2I/O (W-R) L-F | 1 |
| 21 | | P9 | 0302-9020-0114 | RCA JACK 2ROW 2I/O (W-R) L-F | 1 |
| 22 | | U12 | 0980-0103-3060 | MODULE TUNER DTVS205CH201A L-F | 1 |
| 23 | | U3 | 0430-6011-3210 | IC MC7805CTG 3PIN TO-220 LF | 1 |
| 24 | SS | | 0430-6011-3204 | IC LM7805CT TO-220 3PIN LF | |
| 25 | | U31 | 0430-4013-3109 | IC TDA8946AJ 17PIN DIP LF | 1 |
| 26 | | Y1 | 0280-2500-0012 | X'TAL 25MHZ 49/US 30PPM 20PF LF | 1 |

363201020150S MAIN BD ASS'Y VX32L HDTV_LG_New SMD

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|---------------|---|-----|
| 1 | | | 363201020150B | MAIN BD ASS'Y VX32L HDTV LG New SMD BOT | 1 |
| 2 | | | 363201020150T | MAIN BD ASS'Y VX32L HDTV_LG_New SMD TOP | 1 |

364200220189M IR BD ASS'Y GV42L HDTV MI

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 1 | | JR1 | 0451-2000-0466 | WAFER 2.0mm 4P 90' DIP KINK (M24264R) L-F | 1 |
| 2 | SS | | 0451-2003-0463 | WAFER 2.00mm 4P 90' KINK (A2001WR2-4P) L-F | |
| 3 | | UR1 | 0980-0200-2130 | MODULE. IR RECEIVER (FM-6038LM-5AN) | 1 |
| 4 | | UR1S | 1701-1500-0360 | IR HOLDER (TM-15A) | 1 |

364200220189S IR BD ASS'Y GV42L HDTV SMD

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 1 | | | 0171-1671-0501 | PCB IR BD FR4 66.5*12*1.6t D (GV42L HDTV)(1:20) | 1 |
| 2 | | CR2 | 0111-3106-1614 | C/M Multi. 10uF 16V X7R K 1206 | 1 |
| 3 | SS | | 0111-3106-1114 | C/M MULTI 10uF 10V X7R K 1206 | |
| 4 | SS | | 0112-3106-1614 | C/M MULTI 10uF 16V X7R 1206 | |
| 5 | SS | | 0115-7106-1614 | C/M MULTI 10uF 16V X7R 1206 | |
| 6 | | CR3 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 7 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 8 | | LR1 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 9 | | RR1 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | 1 |
| 10 | | RR2 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | 1 |
| 11 | | ZDR1 | 0400-0881-5012 | ZENER 8.85~9.23V UDZSTE-179.1B 1/5W SOD-323 | 1 |

363201020150B MAIN BD ASS'Y VX32L HDTV_LG_New SMD BOT

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 1 | | CB100 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 2 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 3 | | CB101 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 4 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 5 | | CB102 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 6 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 7 | | CB103 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 8 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 9 | | CB104 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 10 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 11 | | CB105 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 12 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 13 | | CB106 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 14 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 15 | | CB107 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 16 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 17 | | CB108 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 18 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 19 | | CB109 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 20 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 21 | | CB111 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 22 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 23 | | CB112 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 24 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 25 | | CB113 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 26 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 27 | | CB114 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 28 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 29 | | CB115 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 30 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 31 | | CB116 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 32 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 33 | | CB117 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 34 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 35 | | CB118 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 36 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 37 | | CB119 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 38 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 39 | | CB12 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 40 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 41 | | CB126 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 42 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 43 | | CB13 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 44 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 45 | | CB130 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 46 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 47 | | CB136 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 48 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 49 | | CB137 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 50 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 51 | | CB138 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 52 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 53 | | CB139 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 54 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 55 | | CB14 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 56 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 57 | | CB140 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 58 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 59 | | CB141 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 60 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 61 | | CB142 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 62 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 63 | | CB144 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 64 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 65 | | CB145 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 66 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 67 | | CB146 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 68 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 69 | | CB147 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 70 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 71 | | CB148 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 72 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 73 | | CB149 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 74 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 75 | | CB150 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 76 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 77 | | CB151 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 78 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 79 | | CB152 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 80 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 81 | | CB153 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 82 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 83 | | CB154 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 84 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 85 | | CB156 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 86 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 87 | | CB157 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 88 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 89 | | CB158 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 90 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 91 | | CB159 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 92 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 93 | | CB160 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 94 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 95 | | CB161 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 96 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 97 | | CB162 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 98 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 99 | | CB163 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 100 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 101 | | CB164 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 102 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 103 | | CB165 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 104 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 105 | | CB166 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 106 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 107 | | CB167 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 108 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 109 | | CB168 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 110 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 111 | | CB170 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 112 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 113 | | CB175 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 114 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 115 | | CB212 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 116 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 117 | | CB213 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 118 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 119 | | CB214 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 120 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 121 | | CB215 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 122 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 123 | | CB216 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 124 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 125 | | CB217 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 126 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 127 | | CB218 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 128 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 129 | | CB219 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 130 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 131 | | CB220 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 132 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 133 | | CB221 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 134 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 135 | | CB222 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 136 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 137 | | CB223 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 138 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 139 | | CB232 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 140 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 141 | | CB233 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 142 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 143 | | CB234 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 144 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 145 | | CB235 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 146 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 147 | | CB240 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 148 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 149 | | CB241 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 150 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 151 | | CB242 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 152 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 153 | | CB243 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 154 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 155 | | CB244 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 156 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 157 | | CB245 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 158 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 159 | | CB246 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 160 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 161 | | CB39 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 162 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 163 | | CB40 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 164 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 165 | | CB46 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 166 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 167 | | CB47 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 168 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 169 | | CB48 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 170 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 171 | | CB49 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 172 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 173 | | CB50 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 174 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 175 | | CB51 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 176 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 177 | | CB52 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 178 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 179 | | CB53 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 180 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 181 | | CB54 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 182 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 183 | | CB57 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 184 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 185 | | CB58 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 186 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 187 | | CB59 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 188 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 189 | | CB60 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 190 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 191 | | CB61 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 192 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 193 | | CB62 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 194 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 195 | | CB63 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 196 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 197 | | CB64 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 198 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 199 | | CB65 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 200 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 201 | | CB66 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 202 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 203 | | CB67 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 204 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 205 | | CB68 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 206 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 207 | | CB70 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 208 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 209 | | CB71 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 210 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 211 | | CB72 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 212 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 213 | | CB73 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 214 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 215 | | CB75 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 216 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 217 | | CB77 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 218 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 219 | | CB78 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 220 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 221 | | CB79 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 222 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 223 | | CB82 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 224 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 225 | | CB83 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 226 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 227 | | CB84 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 228 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 229 | | CB85 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 230 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 231 | | CB86 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 232 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 233 | | CB87 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 234 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 235 | | CB90 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 236 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 237 | | CB93 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 238 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 239 | | CB94 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 240 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 241 | | CB95 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 242 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 243 | | CB97 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 244 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 245 | | CB98 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 246 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 247 | | C132 | 0111-3106-1114 | C/M MULTI 10uF 10V X7R K 1206 | 1 |
| 248 | SS | | 0112-3106-1114 | C/M Multi. 10UF 10V X7R 1206 | |
| 249 | | C20 | 0111-3104-5166 | C/M MULTI 0.1UF 50V X7R J 0603 | 1 |
| 250 | SS | | 0112-3104-5166 | C/M Muilt. 0.1uF 50V X7R J 0603 | |
| 251 | | C23 | 0111-3104-5166 | C/M MULTI 0.1UF 50V X7R J 0603 | 1 |
| 252 | SS | | 0112-3104-5166 | C/M Muilt. 0.1uF 50V X7R J 0603 | |
| 253 | | C26 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 254 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 255 | | C27 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 256 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 257 | | C28 | 0111-3106-1114 | C/M MULTI 10uF 10V X7R K 1206 | 1 |
| 258 | SS | | 0112-3106-1114 | C/M Multi. 10UF 10V X7R 1206 | |
| 259 | | C31 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 260 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 261 | | D10 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 262 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 263 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 264 | | L13 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 265 | | L30 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 266 | | L33 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 267 | | L38 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 268 | | L42 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 269 | | L43 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 270 | | L49 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 271 | | R100 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | 1 |
| 272 | | R101 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | 1 |
| 273 | | R102 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | 1 |
| 274 | | R226 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 275 | | R227 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 276 | | R228 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 277 | | R229 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 278 | | R230 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-----------------------------|-----|
| 279 | | R231 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 280 | | R232 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 281 | | R233 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 282 | | R390 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | 1 |
| 283 | | R391 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | 1 |
| 284 | | R397 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 285 | | R398 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 286 | | R399 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 287 | | R400 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 288 | | R401 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 289 | | R402 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 290 | | R403 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 291 | | R404 | 0130-2000-1654 | RES. CF 200ohm 1/16W J 0402 | 1 |
| 292 | | R407 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |

363201020150T MAIN BD ASS'Y VX32L HDTV_LG_New SMD TOP

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 1 | | | 0171-2272-2174 | PCB MAIN BD FR4 340*140*1.6t 4M (VX32L HDTV)(1:1) | 1 |
| 2 | | CB1 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 3 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 4 | | CB110 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 5 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 6 | | CB120 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 7 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 8 | | CB121 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 9 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 10 | | CB122 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 11 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 12 | | CB123 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 13 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 14 | | CB124 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 15 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 16 | | CB125 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 17 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 18 | | CB127 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 19 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 20 | | CB128 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 21 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 22 | | CB129 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 23 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 24 | | CB131 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 25 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 26 | | CB132 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 27 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 28 | | CB133 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 29 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 30 | | CB134 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 31 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 32 | | CB135 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 33 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 34 | | CB143 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 35 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 36 | | CB15 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 37 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 38 | | CB155 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 39 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 40 | | CB16 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 41 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 42 | | CB169 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 43 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 44 | | CB17 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 45 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 46 | | CB171 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 47 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 48 | | CB172 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 49 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 50 | | CB173 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 51 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 52 | | CB174 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 53 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 54 | | CB176 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 55 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 56 | | CB177 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 57 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 58 | | CB178 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 59 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 60 | | CB179 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 61 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 62 | | CB18 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 63 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 64 | | CB180 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 65 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 66 | | CB181 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 67 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 68 | | CB183 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 69 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 70 | | CB184 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 71 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 72 | | CB185 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 73 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 74 | | CB186 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 75 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 76 | | CB187 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 77 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 78 | | CB188 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 79 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 80 | | CB189 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 81 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 82 | | CB19 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 83 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 84 | | CB190 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 85 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 86 | | CB191 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 87 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 88 | | CB192 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 89 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 90 | | CB193 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|----------------------------------|-----|
| 91 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 92 | | CB194 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 93 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 94 | | CB195 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 95 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 96 | | CB196 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 97 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 98 | | CB197 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 99 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 100 | | CB198 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 101 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 102 | | CB199 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 103 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 104 | | CB2 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 105 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 106 | | CB20 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 107 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 108 | | CB200 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 109 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 110 | | CB201 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 111 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 112 | | CB202 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 113 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 114 | | CB203 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 115 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 116 | | CB204 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 117 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 118 | | CB205 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 119 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 120 | | CB206 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 121 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 122 | | CB207 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 123 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 124 | | CB208 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 125 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 126 | | CB209 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 127 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 128 | | CB21 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 129 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 130 | | CB210 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 131 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 132 | | CB211 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 133 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 134 | | CB22 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 135 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 136 | | CB224 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 137 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|-------------------------------|-----|
| 138 | | CB225 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 139 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 140 | | CB226 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 141 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 142 | | CB227 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 143 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 144 | | CB228 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 145 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 146 | | CB229 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 147 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 148 | | CB23 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 149 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 150 | | CB230 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 151 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 152 | | CB231 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 153 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 154 | | CB236 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 155 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 156 | | CB237 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 157 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 158 | | CB238 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 159 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 160 | | CB239 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 161 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 162 | | CB24 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 163 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 164 | | CB247 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 165 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 166 | | CB248 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 167 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 168 | | CB25 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 169 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 170 | | CB26 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 171 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 172 | | CB27 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 173 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 174 | | CB28 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 175 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 176 | | CB29 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 177 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 178 | | CB3 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 179 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 180 | | CB30 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 181 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 182 | | CB31 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 183 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 184 | | CB32 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|---------------------------------|-----|
| 185 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 186 | | CB33 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 187 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 188 | | CB34 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 189 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 190 | | CB35 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 191 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 192 | | CB36 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 193 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 194 | | CB37 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 195 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 196 | | CB38 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 197 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 198 | | CB4 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 199 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 200 | | CB41 | 0111-3104-5166 | C/M MULTI 0.1UF 50V X7R J 0603 | 1 |
| 201 | SS | | 0112-3104-5166 | C/M Multl. 0.1uF 50V X7R J 0603 | |
| 202 | | CB42 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 203 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 204 | | CB43 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 205 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 206 | | CB44 | 0111-3104-5166 | C/M MULTI 0.1UF 50V X7R J 0603 | 1 |
| 207 | SS | | 0112-3104-5166 | C/M Multl. 0.1uF 50V X7R J 0603 | |
| 208 | | CB45 | 0111-3104-5166 | C/M MULTI 0.1UF 50V X7R J 0603 | 1 |
| 209 | SS | | 0112-3104-5166 | C/M Multl. 0.1uF 50V X7R J 0603 | |
| 210 | | CB5 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 211 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 212 | | CB55 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 213 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 214 | | CB56 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 215 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 216 | | CB69 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 217 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 218 | | CB74 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 219 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 220 | | CB76 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 221 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 222 | | CB80 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 223 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 224 | | CB81 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 225 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 226 | | CB88 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 227 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 228 | | CB89 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 229 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 230 | | CB96 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 231 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|--------------------------------------|-----|
| 232 | | CB99 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 233 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 234 | | C1 | 0111-3105-1615 | C/M MULTI. 1.0uF 16V X7R 0805 | 1 |
| 235 | SS | | 0112-3105-1615 | C/M MULTI 1.0uF 16V X7R 0805 | |
| 236 | | C10 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 237 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 238 | | C100 | 0111-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | 1 |
| 239 | SS | | 0112-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | |
| 240 | | C101 | 0111-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | 1 |
| 241 | SS | | 0112-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | |
| 242 | | C104 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 243 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 244 | | C105 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 245 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 246 | | C106 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 247 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 248 | | C107 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 249 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 250 | | C111 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 251 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 252 | | C116 | 0111-3472-5117 | C/M Multi. 4700PF 50V X7R K 0402 | 1 |
| 253 | SS | | 0112-3472-5117 | C/M Multi. 4700PF 50V X7R K 0402 L-F | |
| 254 | | C117 | 0111-3472-5117 | C/M Multi. 4700PF 50V X7R K 0402 | 1 |
| 255 | SS | | 0112-3472-5117 | C/M Multi. 4700PF 50V X7R K 0402 L-F | |
| 256 | | C118 | 0111-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 | 1 |
| 257 | SS | | 0112-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 L-F | |
| 258 | | C119 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 259 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 260 | | C121 | 0111-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | 1 |
| 261 | SS | | 0112-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | |
| 262 | | C122 | 0111-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 | 1 |
| 263 | SS | | 0112-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 L-F | |
| 264 | | C123 | 0111-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 | 1 |
| 265 | SS | | 0112-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 L-F | |
| 266 | | C124 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 267 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 268 | | C126 | 0111-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 | 1 |
| 269 | SS | | 0112-3474-1636 | C/M Multi. 0.47uF 16V Y5V 0603 L-F | |
| 270 | | C127 | 0111-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | 1 |
| 271 | SS | | 0112-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | |
| 272 | | C128 | 0111-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | 1 |
| 273 | SS | | 0112-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | |
| 274 | | C129 | 0111-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | 1 |
| 275 | SS | | 0112-3224-2516 | C/M Multi. 0.22uF 25V X7R 0603 | |
| 276 | | C13 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 277 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 278 | | C130 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|----------------------------------|-----|
| 279 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 280 | | C131 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 281 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 282 | | C14 | 0111-3569-5107 | C/M Multi. 5.6pF 50V NPO 0402 | 1 |
| 283 | SS | | 0112-3569-5107 | C/M Multi. 5.6pF 50V NPO 0402 | |
| 284 | | C15 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |
| 285 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 286 | | C157 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 287 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 288 | | C158 | 0111-3106-1114 | C/M MULTI 10uF 10V X7R K 1206 | 1 |
| 289 | SS | | 0112-3106-1114 | C/M Multi. 10UF 10V X7R 1206 | |
| 290 | | C16 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 291 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 292 | | C164 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 293 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 294 | | C17 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 295 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 296 | | C19 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 297 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 298 | | C2 | 0111-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | 1 |
| 299 | SS | | 0112-3104-1617 | C/M Multi. 0.1uF 16V X7R 0402 | |
| 300 | | C21 | 0111-3104-5166 | C/M MULTI 0.1UF 50V X7R J 0603 | 1 |
| 301 | SS | | 0112-3104-5166 | C/M Multl. 0.1uF 50V X7R J 0603 | |
| 302 | | C22 | 0111-3106-1114 | C/M MULTI 10uF 10V X7R K 1206 | 1 |
| 303 | SS | | 0112-3106-1114 | C/M Multi. 10UF 10V X7R 1206 | |
| 304 | | C24 | 0111-3180-5107 | C/M Multi. 18PF 50V NPO 0402 | 1 |
| 305 | SS | | 0112-3180-5107 | C/M Multi. 18PF 50V NPO 0402 | |
| 306 | | C25 | 0111-3180-5107 | C/M Multi. 18PF 50V NPO 0402 | 1 |
| 307 | SS | | 0112-3180-5107 | C/M Multi. 18PF 50V NPO 0402 | |
| 308 | | C29 | 0111-3106-1114 | C/M MULTI 10uF 10V X7R K 1206 | 1 |
| 309 | SS | | 0112-3106-1114 | C/M Multi. 10UF 10V X7R 1206 | |
| 310 | | C30 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 311 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 312 | | C32 | 0111-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | 1 |
| 313 | SS | | 0112-3475-1135 | C/M MULTI 4.7uF 10V Y5V 0805 | |
| 314 | | C37 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 315 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 316 | | C40 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 317 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 318 | | C41 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 319 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 320 | | C42 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 321 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 322 | | C44 | 0111-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | 1 |
| 323 | SS | | 0112-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | |
| 324 | | C46 | 0111-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | 1 |
| 325 | SS | | 0112-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|----------------------------------|-----|
| 326 | | C47 | 0111-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | 1 |
| 327 | SS | | 0112-3220-5107 | C/M Multi. 22PF 50V NPO J 0402 | |
| 328 | | C48 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 329 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 330 | | C49 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 331 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 332 | | C50 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 333 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 334 | | C51 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 335 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 336 | | C52 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 337 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 338 | | C53 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 339 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 340 | | C56 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 341 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 342 | | C57 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 343 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 344 | | C58 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 345 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 346 | | C59 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 347 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 348 | | C6 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 349 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 350 | | C60 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 351 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 352 | | C61 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 353 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 354 | | C62 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 355 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 356 | | C63 | 0111-3470-5107 | C/M Multi. 47pF 50V NPO 0402 | 1 |
| 357 | SS | | 0112-3470-5107 | C/M Multi. 47PF 50V NPO J 0402 | |
| 358 | | C64 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 359 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 360 | | C65 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 361 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 362 | | C66 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 363 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 364 | | C67 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |
| 365 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 366 | | C68 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 367 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 368 | | C69 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 369 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 370 | | C70 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 371 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 372 | | C71 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|----------------------------------|-----|
| 373 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 374 | | C72 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 375 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 376 | | C73 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 377 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 378 | | C74 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |
| 379 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 380 | | C75 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 381 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 382 | | C76 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 383 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 384 | | C77 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 385 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 386 | | C78 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 387 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 388 | | C79 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |
| 389 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 390 | | C80 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 391 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 392 | | C81 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 393 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 394 | | C82 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |
| 395 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 396 | | C83 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 397 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 398 | | C84 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 399 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 400 | | C85 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 401 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 402 | | C86 | 0111-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | 1 |
| 403 | SS | | 0112-3150-5107 | C/M Multi. 15PF 50V NPO 0402 | |
| 404 | | C87 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 405 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 406 | | C88 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 407 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 408 | | C89 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 409 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 410 | | C9 | 0111-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | 1 |
| 411 | SS | | 0112-3473-2517 | C/M Multi. 0.047uF 25V X7R 0402 | |
| 412 | | C90 | 0111-3509-5107 | C/M Multi. 5PF 50V NPO 0402 | 1 |
| 413 | SS | | 0112-3509-5107 | C/M Multi. 5PF 50V COG 0402 L-F | |
| 414 | | C91 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 415 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 416 | | C92 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 417 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 418 | | C93 | 0111-3509-5107 | C/M Multi. 5PF 50V NPO 0402 | 1 |
| 419 | SS | | 0112-3509-5107 | C/M Multi. 5PF 50V COG 0402 L-F | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 420 | | C94 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 421 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 422 | | C95 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 423 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 424 | | C96 | 0111-3509-5107 | C/M Multi. 5PF 50V NPO 0402 | 1 |
| 425 | SS | | 0112-3509-5107 | C/M Multi. 5PF 50V COG 0402 L-F | |
| 426 | | C97 | 0111-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | 1 |
| 427 | SS | | 0112-3103-1617 | C/M Multi. 0.01uF 16V X7R K 0402 | |
| 428 | | C98 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 429 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 430 | | C99 | 0111-3102-5117 | C/M MULTI 1000PF 50V X7R 0402 | 1 |
| 431 | SS | | 0112-3102-5117 | C/M Multi. 1000PF 50V X7R 0402 | |
| 432 | | D1 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 433 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 434 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 435 | | D13 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 436 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 437 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 438 | | D14 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 439 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 440 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 441 | | D30 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 442 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 443 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 444 | | D32 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 445 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 446 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 447 | | D4 | 0390-6005-5293 | SCHOTTKY DIODE 3A 40V B340A-13-F SMA L-F | 1 |
| 448 | | D42 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 449 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 450 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 451 | | D45 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 452 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 453 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 454 | | D5 | 0390-6005-2103 | SCHOTTKY DIODE 0.5A/40V MBR0540T1G SOD-123 LF | 1 |
| 455 | | D51 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 456 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 457 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 458 | | D52 | 0390-6005-5293 | SCHOTTKY DIODE 3A 40V B340A-13-F SMA L-F | 1 |
| 459 | | D53 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 460 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 461 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 462 | | D54 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 463 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |
| 464 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 465 | | D9 | 0390-5004-2343 | GEN. DIODE LL4148WP SMD 1206 L-F | 1 |
| 466 | SS | | 0390-3006-7353 | DIODE FAST 0.3A 100V LL4148 LL-34 LF | |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|--|-----|
| 467 | SS | | 0390-5004-2223 | GEN. DIODE RLS4148NTE-11 SMD L-F | |
| 468 | | F1 | 0185-1302-0073 | FUSE 125V/3A SMD (R451003) LF | 1 |
| 469 | | F2 | 0185-1302-0073 | FUSE 125V/3A SMD (R451003) LF | 1 |
| 470 | | J7 | 0302-2000-2306 | CONN MALE R/A 30P SMD (MS240430G) L-F | 1 |
| 471 | | L10 | 0370-0001-4282 | CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF | 1 |
| 472 | | L12 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 473 | | L14 | 0130-0000-1858 | RES. CF 0.0ohm 1/8W J 0805 | 1 |
| 474 | | L16 | 0370-0001-4282 | CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF | 1 |
| 475 | | L21 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 476 | | L22 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 477 | | L26 | 0360-1000-0420 | POWER INDUCTOR L:10uH 1.44A 5.8x5.2mm SMD LF | 1 |
| 478 | | L28 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 479 | | L29 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 480 | | L31 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 481 | | L32 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 482 | | L34 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 483 | | L35 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 484 | | L36 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 485 | | L37 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 486 | | L39 | 0360-1000-0430 | POWER INDUCTOR L:150uH 400mA 5.8x5.2mm SMD LF | 1 |
| 487 | | L4 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 488 | | L40 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 489 | | L41 | 0360-1000-0430 | POWER INDUCTOR L:150uH 400mA 5.8x5.2mm SMD LF | 1 |
| 490 | | L44 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 491 | | L5 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 492 | | L50 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 493 | | L51 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 494 | | L52 | 0370-2022-9620 | CHIP COIL 2.2uH 15mA 0603 LF (MLF1608A2R2KT) | 1 |
| 495 | | L53 | 0370-2022-9620 | CHIP COIL 2.2uH 15mA 0603 LF (MLF1608A2R2KT) | 1 |
| 496 | | L54 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 497 | | L56 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 498 | | L58 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 499 | | L6 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 500 | | L60 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 501 | | L61 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 502 | | L63 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 503 | | L64 | 0370-0001-4282 | CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF | 1 |
| 504 | | L67 | 0370-0000-6452 | CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2) | 1 |
| 505 | | L7 | 0370-0001-4282 | CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF | 1 |
| 506 | | L74 | 0130-0000-1858 | RES. CF 0.0ohm 1/8W J 0805 | 1 |
| 507 | | L9 | 0370-0001-4282 | CHIP BEAD 80ohm 6A 0805 (GB201212K800TM) LF | 1 |
| 508 | | P6 | 0304-1000-0113 | CONN HDMI 19P 90' SMD With Flange (392M19-H58) L-F | 1 |
| 509 | | P7 | 0304-1000-0113 | CONN HDMI 19P 90' SMD With Flange (392M19-H58) L-F | 1 |
| 510 | | QF3 | 0420-2005-8635 | MOSFET 3.6A 30V AM2343P-T1-PF SOT-23 3PIN LF | 1 |
| 511 | | Q1 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 512 | | Q10 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 513 | | Q11 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|------------------------------------|-----|
| 514 | | Q12 | 0410-5000-5710 | TRANSISTOR MMBT3906LT1G SOT-23 L-F | 1 |
| 515 | SS | | 0410-5000-5711 | TRANSISTOR PMBS3906 SMD LF | |
| 516 | | Q13 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 517 | | Q14 | 0410-5000-5710 | TRANSISTOR MMBT3906LT1G SOT-23 L-F | 1 |
| 518 | SS | | 0410-5000-5711 | TRANSISTOR PMBS3906 SMD LF | |
| 519 | | Q15 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 520 | | Q16 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 521 | | Q17 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 522 | | Q18 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 523 | | Q19 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 524 | | Q2 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 525 | | Q21 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 526 | | Q22 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 527 | | Q23 | 0410-5000-5710 | TRANSISTOR MMBT3906LT1G SOT-23 L-F | 1 |
| 528 | SS | | 0410-5000-5711 | TRANSISTOR PMBS3906 SMD LF | |
| 529 | | Q24 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 530 | | Q25 | 0410-5000-5710 | TRANSISTOR MMBT3906LT1G SOT-23 L-F | 1 |
| 531 | SS | | 0410-5000-5711 | TRANSISTOR PMBS3906 SMD LF | |
| 532 | | Q26 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 533 | | Q3 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 534 | | Q4 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 535 | | Q5 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 536 | | Q8 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 537 | | Q9 | 0410-5000-5610 | TRANSISTOR MMBT3904LT1G SOT-23 L-F | 1 |
| 538 | | RN10 | 0141-2209-3851 | ARRAY RES. A(X) 22ohm 4R J 8P | 1 |
| 539 | | RN11 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 540 | | RN12 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 541 | | RN13 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 542 | | RN14 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 543 | | RN15 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 544 | | RN16 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 545 | | RN17 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 546 | | RN18 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 547 | | RN19 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 548 | | RN20 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 549 | | RN21 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 550 | | RN22 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 551 | | RN23 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 552 | | RN24 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 553 | | RN25 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 554 | | RN26 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 555 | | RN27 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 556 | | RN28 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 557 | | RN29 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 558 | | RN30 | 0141-4709-3851 | ARRAY RES. A(X) 47ohm 4R J 8P | 1 |
| 559 | | RN31 | 0141-7509-3851 | ARRAY RES. A(X) 75ohm 4R J 8P | 1 |
| 560 | | RN6 | 0141-2209-3851 | ARRAY RES. A(X) 22ohm 4R J 8P | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|-------------------------------|-------------|-----|
| 561 | RN7 | 0141-2209-3851 | ARRAY RES. A(X) 22ohm 4R J 8P | | 1 |
| 562 | RN8 | 0141-2209-3851 | ARRAY RES. A(X) 22ohm 4R J 8P | | 1 |
| 563 | RN9 | 0141-2209-3851 | ARRAY RES. A(X) 22ohm 4R J 8P | | 1 |
| 564 | RP23 | 0141-3309-3851 | ARRAY RES. A(X) 33ohm 4R J 8P | | 1 |
| 565 | RP24 | 0141-3309-3851 | ARRAY RES. A(X) 33ohm 4R J 8P | | 1 |
| 566 | RP3 | 0141-3309-3851 | ARRAY RES. A(X) 33ohm 4R J 8P | | 1 |
| 567 | RP4 | 0141-3309-3851 | ARRAY RES. A(X) 33ohm 4R J 8P | | 1 |
| 568 | RP5 | 0141-3309-3851 | ARRAY RES. A(X) 33ohm 4R J 8P | | 1 |
| 569 | R1 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 570 | R10 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 571 | R103 | 0130-5109-1654 | RES. CF 51ohm 1/16W J 0402 | | 1 |
| 572 | R104 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 573 | R106 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 574 | R109 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 575 | R11 | 0130-3302-1654 | RES. CF 33Kohm 1/16W J 0402 | | 1 |
| 576 | R110 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 577 | R112 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 578 | R113 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 579 | R114 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 580 | R115 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 581 | R116 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 582 | R117 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 583 | R118 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 584 | R119 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 585 | R12 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 586 | R120 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 587 | R121 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 588 | R122 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 589 | R123 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 590 | R124 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 591 | R125 | 0130-2209-1654 | RES. CF 22ohm 1/16W J 0402 | | 1 |
| 592 | R126 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 593 | R127 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 594 | R128 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 595 | R129 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 596 | R13 | 0130-1800-1654 | RES. CF 180ohm 1/16W J 0402 | | 1 |
| 597 | R130 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 598 | R131 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 599 | R133 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 600 | R134 | 0130-2209-1654 | RES. CF 22ohm 1/16W J 0402 | | 1 |
| 601 | R135 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 602 | R136 | 0130-2209-1654 | RES. CF 22ohm 1/16W J 0402 | | 1 |
| 603 | R137 | 0130-2209-1654 | RES. CF 22ohm 1/16W J 0402 | | 1 |
| 604 | R138 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 605 | R139 | 0130-2209-1654 | RES. CF 22ohm 1/16W J 0402 | | 1 |
| 606 | R14 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 607 | R140 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|---|-------------|-----|
| 608 | R141 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 609 | R142 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 610 | R143 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 611 | R144 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 612 | R145 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 613 | R146 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 614 | R147 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 615 | R148 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 616 | R15 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 617 | R151 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 618 | R152 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 619 | R153 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 620 | R154 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 621 | R155 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 622 | R156 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 623 | R157 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 624 | R158 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 625 | R159 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 626 | R16 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 627 | R160 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 628 | R161 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 629 | R162 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 630 | R163 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 631 | R164 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 632 | R165 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 633 | R166 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 634 | R167 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 635 | R168 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 636 | R169 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 637 | R17 | 0130-4703-1654 | RES. CF 470Kohm 1/16W J 0402 | | 1 |
| 638 | R170 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 639 | R171 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 640 | R172 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 641 | R173 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 642 | R174 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 643 | R175 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 644 | R176 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 645 | R177 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 646 | R178 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 647 | R179 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 648 | R180 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 649 | R181 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 650 | R182 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 651 | R183 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 652 | R184 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 653 | R185 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 654 | R186 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|---|-------------|-----|
| 655 | R187 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 656 | R188 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 657 | R189 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 658 | R190 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 659 | R191 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 660 | R192 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 661 | R193 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 662 | R194 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 663 | R195 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 664 | R196 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 665 | R197 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 666 | R198 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 667 | R199 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 668 | R2 | 0130-5600-1654 | RES. CF 560ohm 1/16W J 0402 | | 1 |
| 669 | R20 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 670 | R200 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 671 | R201 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 672 | R202 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 673 | R203 | 0370-0001-4773 | CHIP BEAD CORE 80ohm (MCB1608H800GA) LF | | 1 |
| 674 | R204 | 0130-6809-1654 | RES. CF 68 ohm 1/16W J 0402 | | 1 |
| 675 | R205 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 676 | R206 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 677 | R207 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 678 | R208 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 679 | R209 | 0131-5110-1614 | RES. MF 511 ohm 1/16W F 0402 | | 1 |
| 680 | R21 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 681 | R210 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | | 1 |
| 682 | R211 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 683 | R212 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 684 | R213 | 0131-5110-1614 | RES. MF 511 ohm 1/16W F 0402 | | 1 |
| 685 | R214 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 686 | R215 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 687 | R216 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | | 1 |
| 688 | R217 | 0130-2002-1654 | RES. CF 20Kohm 1/16W J 0402 | | 1 |
| 689 | R218 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 690 | R220 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 691 | R221 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 692 | R222 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 693 | R223 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 694 | R224 | 0130-3300-1654 | RES. CF 330ohm 1/16W J 0402 | | 1 |
| 695 | R225 | 0130-3300-1654 | RES. CF 330ohm 1/16W J 0402 | | 1 |
| 696 | R23 | 0130-5600-1654 | RES. CF 560ohm 1/16W J 0402 | | 1 |
| 697 | R235 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 698 | R236 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 699 | R237 | 0130-2002-1654 | RES. CF 20Kohm 1/16W J 0402 | | 1 |
| 700 | R238 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 701 | R239 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|------------------------------|-------------|-----|
| 702 | R24 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 703 | R241 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 704 | R242 | 0130-1501-1654 | RES. CF 1.5Kohm 1/16W J 0402 | | 1 |
| 705 | R243 | 0130-1801-1654 | RES. CF 1.8Kohm 1/16W J 0402 | | 1 |
| 706 | R245 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 707 | R246 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 708 | R247 | 0130-2002-1654 | RES. CF 20Kohm 1/16W J 0402 | | 1 |
| 709 | R248 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 710 | R249 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 711 | R251 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 712 | R254 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 713 | R255 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 714 | R256 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 715 | R257 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 716 | R259 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 717 | R26 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 718 | R260 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 719 | R261 | 0130-2002-1654 | RES. CF 20Kohm 1/16W J 0402 | | 1 |
| 720 | R262 | 0130-2002-1654 | RES. CF 20Kohm 1/16W J 0402 | | 1 |
| 721 | R263 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 722 | R264 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 723 | R265 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 724 | R266 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 725 | R267 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 726 | R268 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 727 | R269 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 728 | R27 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 729 | R270 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 730 | R271 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 731 | R272 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 732 | R273 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 733 | R274 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 734 | R275 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 735 | R276 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 736 | R277 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 737 | R278 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 738 | R279 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 739 | R28 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 740 | R280 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 741 | R281 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 742 | R282 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 743 | R283 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 744 | R284 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 745 | R285 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 746 | R286 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 747 | R287 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 748 | R288 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|------------------------------|-------------|-----|
| 749 | R289 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 750 | R290 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 751 | R293 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 752 | R294 | 0130-6802-1654 | RES. CF 68Kohm 1/16W J 0402 | | 1 |
| 753 | R295 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 754 | R296 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 755 | R298 | 0130-2702-1654 | RES. CF 27Kohm 1/16W J 0402 | | 1 |
| 756 | R299 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 757 | R3 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 758 | R30 | 0130-1800-1654 | RES. CF 180ohm 1/16W J 0402 | | 1 |
| 759 | R304 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 760 | R307 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 761 | R308 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 762 | R309 | 0130-3001-1654 | RES. CF 3 Kohm 1/16W J 0402 | | 1 |
| 763 | R31 | 0130-1100-1654 | RES. CF 110ohm 1/16W J 0402 | | 1 |
| 764 | R310 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 765 | R315 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 766 | R317 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 767 | R319 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 768 | R32 | 0130-1100-1654 | RES. CF 110ohm 1/16W J 0402 | | 1 |
| 769 | R320 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 770 | R321 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 771 | R322 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 772 | R325 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 773 | R326 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 774 | R327 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 775 | R329 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 776 | R33 | 0130-1800-1654 | RES. CF 180ohm 1/16W J 0402 | | 1 |
| 777 | R330 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 778 | R331 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 779 | R333 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 780 | R334 | 0130-3908-1858 | RES. CF 3.9ohm 1/8W J 0805 | | 1 |
| 781 | R335 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 782 | R336 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 783 | R337 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 784 | R338 | 0130-3908-1858 | RES. CF 3.9ohm 1/8W J 0805 | | 1 |
| 785 | R34 | 0130-1100-1654 | RES. CF 110ohm 1/16W J 0402 | | 1 |
| 786 | R340 | 0130-3908-1858 | RES. CF 3.9ohm 1/8W J 0805 | | 1 |
| 787 | R341 | 0130-3908-1858 | RES. CF 3.9ohm 1/8W J 0805 | | 1 |
| 788 | R342 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 789 | R343 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 790 | R344 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 791 | R345 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 792 | R346 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 793 | R347 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 794 | R349 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 795 | R35 | 0130-1201-1654 | RES. CF 1.2Kohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|------------------------------|-------------|-----|
| 796 | R352 | 0130-0000-1858 | RES. CF 0.0ohm 1/8W J 0805 | | 1 |
| 797 | R353 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 798 | R354 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 799 | R358 | 0130-4703-1654 | RES. CF 470Kohm 1/16W J 0402 | | 1 |
| 800 | R359 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 801 | R36 | 0130-1800-1654 | RES. CF 180ohm 1/16W J 0402 | | 1 |
| 802 | R360 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 803 | R361 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 804 | R362 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 805 | R364 | 0130-7509-1654 | RES. CF 75ohm 1/16W J 0402 | | 1 |
| 806 | R366 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 807 | R367 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 808 | R369 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 809 | R37 | 0130-2001-1654 | RES CF 2Kohm 1/16W J 0402 | | 1 |
| 810 | R370 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 811 | R371 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 812 | R372 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 813 | R373 | 0130-2002-1654 | RES. CF 20Kohm 1/16W J 0402 | | 1 |
| 814 | R375 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 815 | R377 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 816 | R378 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 817 | R379 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 818 | R38 | 0130-3001-1654 | RES. CF 3 Kohm 1/16W J 0402 | | 1 |
| 819 | R380 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 820 | R382 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 821 | R383 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 822 | R384 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 823 | R385 | 0130-4703-1654 | RES. CF 470Kohm 1/16W J 0402 | | 1 |
| 824 | R386 | 0130-4703-1654 | RES. CF 470Kohm 1/16W J 0402 | | 1 |
| 825 | R387 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 826 | R39 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 827 | R392 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 828 | R393 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 829 | R394 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 830 | R395 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 831 | R396 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 832 | R4 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 833 | R40 | 0130-1100-1654 | RES. CF 110ohm 1/16W J 0402 | | 1 |
| 834 | R406 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 835 | R408 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 836 | R41 | 0130-1003-1654 | RES. CF 100Kohm 1/16W J 0402 | | 1 |
| 837 | R411 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 838 | R415 | 0130-1003-1654 | RES. CF 100Kohm 1/16W J 0402 | | 1 |
| 839 | R416 | 0130-1003-1654 | RES. CF 100Kohm 1/16W J 0402 | | 1 |
| 840 | R417 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 841 | R418 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 842 | R419 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|------|----------------|--------------------------------|-------------|-----|
| 843 | R42 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 844 | R420 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 845 | R43 | 0130-1200-1654 | RES. CF 120ohm 1/16W J 0402 | | 1 |
| 846 | R44 | 0130-1100-1654 | RES. CF 110ohm 1/16W J 0402 | | 1 |
| 847 | R45 | 0130-1800-1654 | RES. CF 180ohm 1/16W J 0402 | | 1 |
| 848 | R46 | 0130-1100-1654 | RES. CF 110ohm 1/16W J 0402 | | 1 |
| 849 | R47 | 0130-1003-1654 | RES. CF 100Kohm 1/16W J 0402 | | 1 |
| 850 | R48 | 0130-2209-1654 | RES. CF 22ohm 1/16W J 0402 | | 1 |
| 851 | R49 | 0130-3001-1654 | RES. CF 3 Kohm 1/16W J 0402 | | 1 |
| 852 | R5 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 853 | R50 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 854 | R51 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 855 | R52 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 856 | R53 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 857 | R54 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 858 | R55 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 859 | R56 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 860 | R57 | 0130-1003-1654 | RES. CF 100Kohm 1/16W J 0402 | | 1 |
| 861 | R58 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 862 | R59 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 863 | R60 | 0130-2203-1654 | RES. CF 220Kohm 1/16W J 0402 | | 1 |
| 864 | R62 | 0130-1000-1654 | RES. CF 100ohm 1/16W J 0402 | | 1 |
| 865 | R63 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | | 1 |
| 866 | R64 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 867 | R65 | 0130-1003-1654 | RES. CF 100Kohm 1/16W J 0402 | | 1 |
| 868 | R66 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 869 | R68 | 0131-6341-1614 | RES. MF 6.34 Kohm 1/16W F 0402 | | 1 |
| 870 | R69 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 871 | R7 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 872 | R70 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 873 | R71 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 874 | R72 | 0130-1004-1654 | RES. CF 1Mohm 1/16W J 0402 | | 1 |
| 875 | R73 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 876 | R74 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 877 | R75 | 0130-1001-1654 | RES. CF 1Kohm 1/16W J 0402 | | 1 |
| 878 | R78 | 0130-5600-1654 | RES. CF 560ohm 1/16W J 0402 | | 1 |
| 879 | R8 | 0130-4702-1654 | RES. CF 47Kohm 1/16W J 0402 | | 1 |
| 880 | R83 | 0130-4709-1654 | RES. CF 47ohm 1/16W J 0402 | | 1 |
| 881 | R85 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 882 | R86 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 883 | R88 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 884 | R9 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | | 1 |
| 885 | R91 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 886 | R92 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 887 | R93 | 0130-3309-1654 | RES. CF 33ohm 1/16W J 0402 | | 1 |
| 888 | R94 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |
| 889 | R95 | 0130-1002-1654 | RES. CF 10Kohm 1/16W J 0402 | | 1 |

| ITEM | M/S | LOCATION | PART NO. | DE SCRPTION | QTY |
|------|-----|----------|----------------|---|-----|
| 890 | | R96 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | 1 |
| 891 | | R97 | 0130-4701-1654 | RES. CF 4.7Kohm 1/16W J 0402 | 1 |
| 892 | | R98 | 0130-8201-1654 | RES. CF 8.2Kohm 1/16W J 0402 | 1 |
| 893 | | R99 | 0130-0000-1654 | RES. CF 0ohm 1/16W J 0402 | 1 |
| 894 | | U1 | 0420-1005-4601 | POWER MOS IRF7316TRPBF SMD 8PIN LF | 1 |
| 895 | SS | | 0420-2004-9629 | MOSFET P-CH 5A 30V AP4953GM SO-8 LF | |
| 896 | | U10 | 0430-6006-1079 | IC LDO AP1084KLA ADJ TO-263-3L LF | 1 |
| 897 | | U11 | 0430-1002-0015 | IC CMOS SN74HC00DR SOIC 14PIN LF | 1 |
| 898 | SS | | 0430-1002-0009 | IC CMOS 74HC00D SO14 LF | |
| 899 | | U13 | 0430-7043-1999 | IC DEMODULATOR MT5112BD LQFP 100PIN LF | 1 |
| 900 | | U14 | 0430-7043-6999 | IC SCALER MT5372AJ-L BGA 588PIN LF | 1 |
| 901 | | U15 | 0430-6015-6099 | IC RESET STL8110GCL438 4.38V SOT-23 3PIN LF | 1 |
| 902 | | U16 | 0430-3039-4645 | IC MX29LV320CTTC-70G 48PIN TSOP LF | 1 |
| 903 | SS | | 0430-3039-4648 | IC FLASH 32M EN29LV320T-70TCP TSOP 48PIN LF | |
| 904 | | U16X | 0991-2003-2400 | SOFTWARE VX32L HDTV10A_LPL CPU:VX32LLMM57.bin | 1 |
| 905 | | U17 | 0430-3004-3011 | IC AT24C16AN-10SU-2.7 SO-8 L-F | 1 |
| 906 | | U18 | 0430-7031-9603 | IC DDR 16Mx16 NT5DS16M16CS-5T 66PIN TSOPII LF | 1 |
| 907 | | U19 | 0430-7031-9603 | IC DDR 16Mx16 NT5DS16M16CS-5T 66PIN TSOPII LF | 1 |
| 908 | | U2 | 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | 1 |
| 909 | | U20 | 0430-6010-9028 | IC G2996F1Uf 8PIN SOP-8(FD) LF | 1 |
| 910 | | U21 | 0430-3039-6011 | IC AT24C02BN-10SU-1.8 8Pin SOIC L-F | 1 |
| 911 | | U22 | 0430-7044-1092 | IC SWITCH PI3HDMI412FTZHE TQFN 42PIN LF | 1 |
| 912 | | U23 | 0430-3039-6011 | IC AT24C02BN-10SU-1.8 8Pin SOIC L-F | 1 |
| 913 | | U24 | 0430-7043-5092 | IC SWITCH PI5C3257QE QSOP 16PIN LF | 1 |
| 914 | | U25 | 0430-3039-6011 | IC AT24C02BN-10SU-1.8 8Pin SOIC L-F | 1 |
| 915 | | U27 | 0430-0001-8015 | IC CD4052BNSR 16PIN SOP16 L-F | 1 |
| 916 | SS | | 0430-0002-9086 | IC CMOS 4052L-S16-R SOP 16PIN LF | |
| 917 | | U28 | 0430-7027-3699 | IC WM8776SEFT 48PIN TQFP L-F | 1 |
| 918 | | U30 | 0430-7043-7099 | IC AUDIO DAC WM8521HCGED SOIC 14PIN LF | 1 |
| 919 | | U32 | 0420-1005-4601 | POWER MOS IRF7316TRPBF SMD 8PIN LF | 1 |
| 920 | SS | | 0420-2004-9629 | MOSFET P-CH 5A 30V AP4953GM SO-8 LF | |
| 921 | | U33 | 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | 1 |
| 922 | | U34 | 0430-6015-8079 | IC DC/DC CONVERTER AP1522WA SOT23-5 5PIN LF | 1 |
| 923 | | U4 | 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | 1 |
| 924 | | U5 | 0430-6015-5079 | IC STEP DOWN CONVERTER AP1513SA SOP 8PIN LF | 1 |
| 925 | | U6 | 0430-6015-5079 | IC STEP DOWN CONVERTER AP1513SA SOP 8PIN LF | 1 |
| 926 | | U7 | 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | 1 |
| 927 | | U8 | 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | 1 |
| 928 | | U9 | 0430-6009-1051 | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 LF | 1 |
| 929 | | X1 | 0286-2700-0024 | OSC 27MHz 25ppm 3.3V SMD VCXO | 1 |

VIZIO VX32L HDTV10A FOR PANEL 差異表

| 產品編號 | 單位 | 規格說明 | 9632-8500-6053 | 9632-8500-7143 | 9632-8500-8033 | 9632-8500-9053 |
|----------------|----|------------------------------------|----------------|----------------|----------------|----------------|
| 0111-3104-1617 | EA | C/M Multi. 0.1uF 16V X7R 0402 | 244 | 243 | 243 | 244 |
| 0111-3105-1615 | EA | C/M MULTI. 1.0uF 16V X7R 0805 | 1 | | | 1 |
| 0112-3106-1135 | EA | C/M MULTI 10uF 10V Y5V 0805 | | 1 | 1 | |
| 0130-0000-1654 | EA | RES. CF 0ohm 1/16W J 0402 | 31 | 30 | 31 | 32 |
| 0130-1001-1654 | EA | RES. CF 1Kohm 1/16W J 0402 | 15 | 16 | 15 | 14 |
| 0130-1002-1654 | EA | RES. CF 10Kohm 1/16W J 0402 | 64 | 63 | 63 | 64 |
| 0130-1100-1654 | EA | RES. CF 110ohm 1/16W J 0402 | 6 | 5 | 5 | 6 |
| 0130-1801-1654 | EA | RES. CF 1.8Kohm 1/16W J 0402 | 1 | 1 | 1 | 2 |
| 0130-2209-1654 | EA | RES. CF 22ohm 1/16W J 0402 | 6 | 5 | 5 | 6 |
| 0130-3300-1654 | EA | RES. CF 330ohm 1/16W J 0402 | 2 | 3 | 3 | 2 |
| 0130-4701-1654 | EA | RES. CF 4.7Kohm 1/16W J 0402 | 30 | 29 | 29 | 30 |
| 0130-4709-1654 | EA | RES. CF 47ohm 1/16W J 0402 | 13 | 11 | 11 | 11 |
| 0131-2208-1614 | EA | RES. MF 2.2 ohm 1/16W F 0402 | | 1 | 1 | |
| 0211-0315-1777 | ST | LCD MODULE 31.5" TFT T315XW02(VD) | | 1 | | |
| 0211-0320-1261 | EA | LCD MODULE 32.0" LC320W01-SL01 (L | 1 | | | |
| 0211-0320-1461 | EA | LCD MODULE 32.0" LC320WX3-SLA1 (L | | | | 1 |
| 0211-0320-1767 | EA | LCD MODULE 32.0" LTA320WT-L05(ZBD | | | 1 | |
| 0430-1002-0015 | ST | IC CMOS SN74HC00DR SOIC 14PIN LF | 1 | | | 1 |
| 0430-6005-7056 | EA | IC LDO 1A 1.5V KIA1117S15 SMD 3PIN | | 1 | 1 | |
| 0430-6009-1051 | EA | IC AMC1117SKF-ADJ SMD 3PIN SOT-223 | 6 | 5 | 5 | 6 |
| 0460-1014-0161 | EA | WH A2001H02-14P/A2543H00-12P 1007# | | 1 | 1 | |

| 產品編號 | 單位 | 規格說明 | 9632-8500-6053 | 9632-8500-7143 | 9632-8500-8033 | 9632-8500-9053 |
|----------------|----|------------------------------------|----------------|----------------|----------------|----------------|
| 0460-3010-0180 | EA | WH A1251H02-10P/A1251H02-10P 1571# | 1 | 1 | 1 | |
| 0460-3010-0191 | ST | WH A1251H02-10P/A1251H02-10P 1571# | | | | 1 |
| 0460-3430-0940 | EA | WH FI-X30C2EL/P240430 20276 480mm | | 1 | | |
| 0460-3430-0981 | EA | WH P240430/FI-E30H 20276#30 220mm+ | | | 1 | |
| 0460-3430-1000 | ST | WH P240430/FI-X30H 20276#30 220mm+ | 1 | | | 1 |
| 0460-4012-0020 | EA | WH A2543H12P-PH12P 1007#24 300mm | 1 | | | 1 |
| 0460-4012-0170 | EA | WH A2543H00-12P/A2001H02-12P 1007# | 1 | | | 1 |
| 0991-2003-2400 | EA | SOFTWARE VX32L HDTV10A_LPL CPU:VX3 | 1 | | | |
| 1701-1933-2010 | EA | SIDE JACK COVER (VX32L_LG)(ABS, SO | 1 | 1 | 1 | |
| 1701-1935-0030 | EA | SIDE JACK COVER (VX32L_LPL)(ABS,SO | | | | 1 |
| 1712-0101-0551 | ST | CHASSIS (VW32L) | | 1 | 1 | |
| 1712-0101-0570 | EA | PANEL HOLDER_L (VX32L) | | 1 | 1 | |
| 1712-0101-0580 | EA | PANEL HOLDER_R (VX32L) | | 1 | 1 | |
| 1712-0101-1160 | EA | CHASSIS (VX32L_LG) | 1 | | | 1 |
| 1712-0101-1170 | EA | PANEL HOLDER_L (VX32L_LG) | 1 | | | 1 |
| 1712-0101-1180 | EA | PANEL HOLDER_R (VX32L_LG) | 1 | | | 1 |
| 1720-1504-0820 | EA | MAC. SCREW-MPSWF M4.0*8.0L,NI | 16 | 26 | 24 | 16 |
| 1925-1200-9780 | ST | CARTON VIZIO VX32L HDTV10A | 1 | 1 | 1 | |
| 1925-1200-9781 | EA | CARTON VIZIO VX32L HDTV10A | | | | 1 |
| 1925-1300-8280 | EA | MANUAL VIZIO VX32L HDTV10A | 1 | 1 | 1 | |
| 1925-1300-8281 | EA | MANUAL VIZIO VX32L HDTV10A | | | | 1 |
| 1947-1700-0050 | EA | SHIELDING AL. TAPE (50.0*40.0) | | 1 | 1 | |
| 1947-1700-0130 | EA | SHIELDING AL.TAPE (70.0*50.0) | 2 | 1 | 1 | 2 |

| 產品編號 | 單位 | 規格說明 | 9632-8500-6053 | 9632-8500-7143 | 9632-8500-8033 | 9632-8500-9053 |
|----------------|----|------------------------------------|----------------|----------------|----------------|----------------|
| 1947-1800-0030 | EA | GASKET BLOCK (10W*17H*60L) | 6 | 7 | 7 | 6 |
| 1947-1800-0460 | EA | GASKET BLOCK (3.0H*10.0W*100.0L mm | 2 | | | 2 |
| 3632-0072-0393 | | ACCESSARY ASS'Y VX32L HDTV10A | 1 | 1 | 1 | |
| 3632-0092-0312 | | PACKING ASS'Y VX32L HDTV10A | 1 | 1 | 1 | |
| 3632-0092-0393 | | ACCESSARY ASS'Y VX32L HDTV10A | | | | 1 |
| 3632-0102-0150 | ST | MAIN BD ASS'Y VX32L HDTV_LG_New (H | 1 | | | |
| 363201020150A | | MAIN BD ASS'Y VX32L HDTV_LG_New AI | 1 | | | |
| 363201020150B | | MAIN BD ASS'Y VX32L HDTV_LG_New SM | 1 | | | |
| 363201020150M | | MAIN BD ASS'Y VX32L HDTV_LG_New MI | 1 | | | |
| 363201020150S | | MAIN BD ASS'Y VX32L HDTV_LG_New SM | 1 | | | |
| 363201020150T | | MAIN BD ASS'Y VX32L HDTV_LG_New SM | 1 | | | |
| 3632-0112-0312 | | PACKING ASS'Y VX32L HDTV10A | | | | 1 |
| 3632-0132-0331 | | PANEL ASS'Y VX32L HDTV10A_LC320W01 | 1 | | | |
| 3632-0162-0150 | ST | MAIN BD ASS'Y VX32L HDTV10A_AUO (H | | | 1 | |
| 363201620150A | | MAIN BD ASS'Y VX32L HDTV10A_AUO AI | | | 1 | |
| 363201620150B | | MAIN BD ASS'Y VX32L HDTV10A_AUO SM | | | 1 | |
| 363201620150M | | MAIN BD ASS'Y VX32L HDTV10A_AUO MI | | | 1 | |
| 363201620150S | | MAIN BD ASS'Y VX32L HDTV10A_AUO SM | | | 1 | |
| 363201620150T | | MAIN BD ASS'Y VX32L HDTV10A_AUO SM | | | 1 | |
| 3632-0192-0150 | ST | MAIN BD ASS'Y VX32L HDTV10A_AUO_VD | | 1 | | |
| 363201920150A | | MAIN BD ASS'Y VX32L HDTV10A_AUO_VD | | 1 | | |
| 363201920150B | | MAIN BD ASS'Y VX32L HDTV10A_AUO_VD | | 1 | | |
| 363201920150M | | MAIN BD ASS'Y VX32L HDTV10A_AUO_VD | | 1 | | |

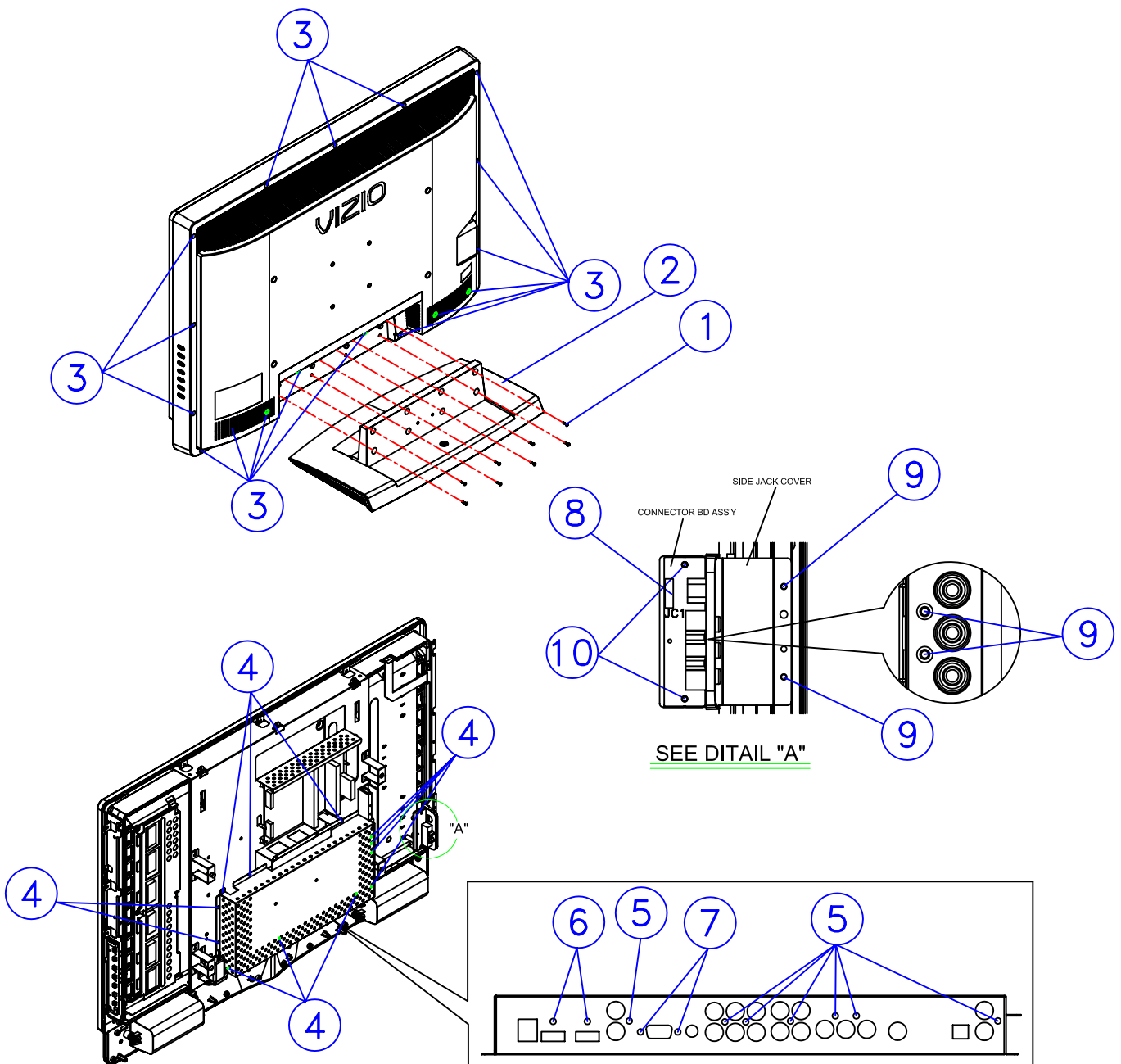
| 產品編號 | 單位 | 規格說明 | 9632-8500-6053 | 9632-8500-7143 | 9632-8500-8033 | 9632-8500-9053 |
|----------------|----|------------------------------------|----------------|----------------|----------------|----------------|
| 363201920150S | ST | MAIN BD ASS'Y VX32L HDTV10A_AUO_VD | | 1 | | |
| 363201920150T | | MAIN BD ASS'Y VX32L HDTV10A_AUO_VD | | 1 | | |
| 3632-0192-0331 | | PANEL ASS'Y VX32L HDTV10A_AUO_VD (| | 1 | | |
| 3632-0202-0150 | | MAIN BD ASS'Y VX32L HDTV10A_LC320W | | | | 1 |
| 363202020150A | | MAIN BD ASS'Y VX32L HDTV10A_LC320W | | | | 1 |
| 363202020150B | | MAIN BD ASS'Y VX32L HDTV10A_LC320W | | | | 1 |
| 363202020150M | | MAIN BD ASS'Y VX32L HDTV10A_LC320W | | | | 1 |
| 363202020150S | | MAIN BD ASS'Y VX32L HDTV10A_LC320W | | | | 1 |
| 363202020150T | | MAIN BD ASS'Y VX32L HDTV10A_LC320W | | | | 1 |
| 3632-0212-0331 | | PANEL ASS'Y VX32L HDTV10A_Samsung | | | 1 | |
| 3632-0232-0331 | | PANEL ASS'Y VX32L HDTV10A_LC320WX3 | | | | 1 |

DISASSEMBLY INSTRUCTIONS

1. REAR COVER ASS'Y REMOVAL

Note: Spread a mat underneath to avoid damaging the TV surface.

- 1) Remove eight screws ① from Base Ass'y ② .
- 2) Separate the Base Ass'y ② .
- 3) Remove seventeen screws ③ from rear cover.
- 4) Separate the rear cover.
- 5) Remove twelve screws ④ from Main shielding.
- 6) Remove seven screws ⑤ , two screws ⑥ , and two hexagon screws ⑦ from Main Shielding.
- 7) Separate the Main Shielding.
- 8) See detail "A", Remove the connector ⑧ (JC1) of the connector cable.
- 9) Remove four screws ⑨ and two screws ⑩ .
- 10) Separate the Connector Bd Ass'y and sidejack cover.

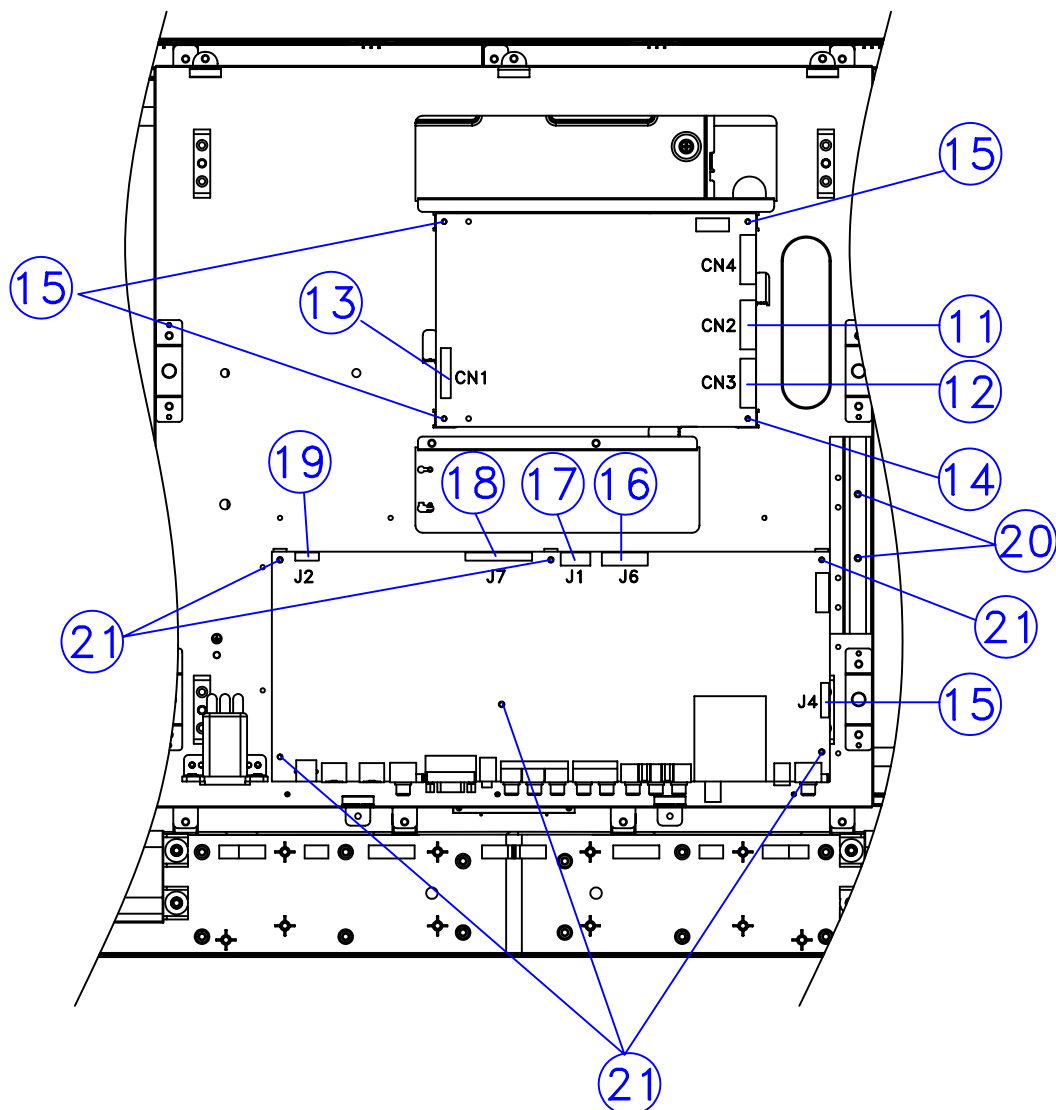


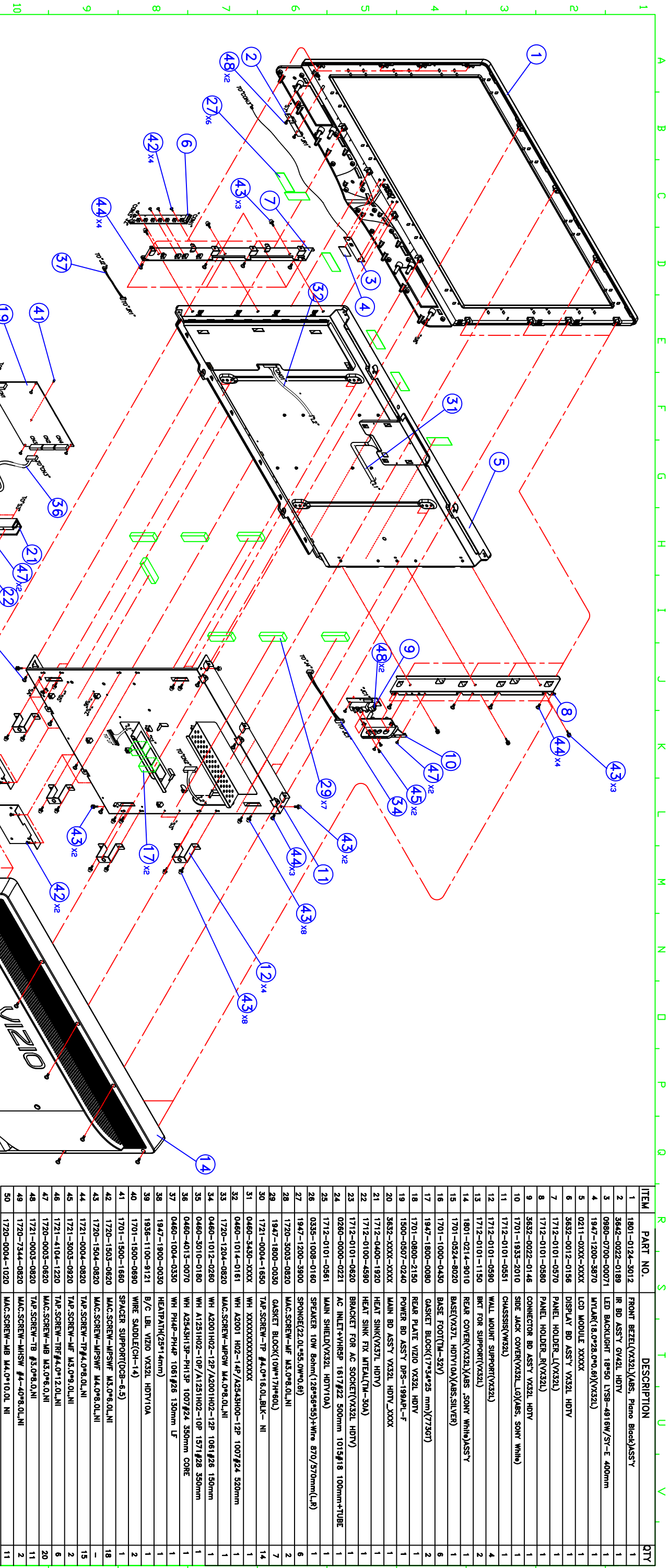
2. POWER BD ASS'Y REMOVAL

- 1) Remove the connector **11** (CN2) of the inverter cable.
- 2) Remove the connector **12** (CN3) of the power cable.
- 3) Remove the connector **13** (CN1) of the power cable 1.
- 4) Remove four screws **14** from Power BD ASS'Y .
- 5) Separate the Power BD ASS'Y .

3. MAIN BD ASS'Y REMOVAL

- 1) Remove the connector **15** (J4) of the Connector cable.
- 2) Remove the connector **16** (J6) of the speaker cable.
- 3) Remove the connector **17** (J1) of the Power cable.
- 4) Remove the connector **18** (J7) of the LVDS cable.
- 5) Remove the connector **19** (J2) of the Display cable.
- 6) Remove two screws **20** from Heat sink.
- 7) Remove six screws **21** from MAIN BD .
- 8) Separate the MAIN BD .





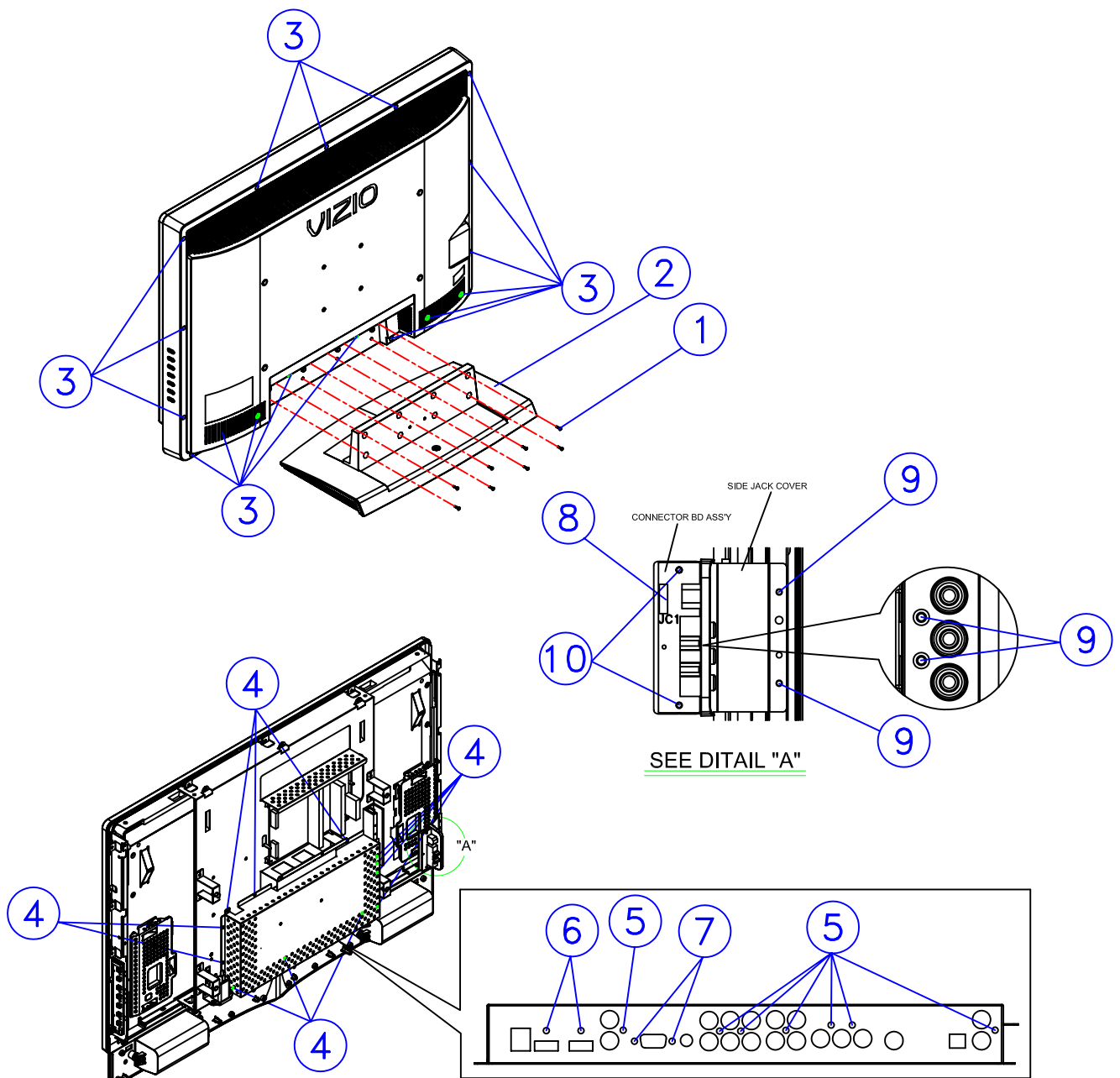
| ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------------|---|-----|
| 1 | 1801-0124-3012 | FRONT BEZEL(VX32L)(ABS, Piano Black)ASS'Y | 1 |
| 2 | 3642-0022-0189 | IR BD ASS'Y GV42L HDTV | 1 |
| 3 | 0980-0700-00071 | LED BACKLIGHT 18"50 LYSB .4916W/ST-E 400mm | 1 |
| 4 | 1947-1200-3870 | MYLAR(18.0*28.0*0.6)(VX32L) | 1 |
| 5 | 0211-0XXX-XXXX | LCD MODULE XXXXX | 1 |
| 6 | 3632-0012-0156 | DISP'LAY BD ASS'Y VX32L HDTV | 1 |
| 7 | 1712-0101-0570 | PANEL HOLDER_L(VX32L) | 1 |
| 8 | 1712-0101-0580 | PANEL HOLDER_R(VX32L) | 1 |
| 9 | 3632-0022-0146 | CONNECTOR BD ASS'Y VX32L HDTV | 1 |
| 10 | 1701-1933-2010 | SIDE JACK COVER(VX32L_LG)(ABS, SONT White) | 1 |
| 11 | 1712-0101-0551 | CHASSIS(VW32L) | 1 |
| 12 | 1712-0101-0590 | WALL MOUNT SUPPORT(VX32L) | 4 |
| 13 | 1712-0101-1150 | BRT FOR SUPPORT(VX32L) | 2 |
| 14 | 1801-0214-9010 | REAR COVER(VX32L)(ABS, SONT White)ASS'Y | 1 |
| 15 | 1701-0524-8020 | BASE(VX37L HDTV)(OA)(ABS,SILVER) | 1 |
| 16 | 1701-1000-0430 | BASE FOOT(TM-32V) | 6 |
| 17 | 1947-1800-0080 | GASKET BLOCK(1734*925 mm)(7736T) | 2 |
| 18 | 1701-0800-2150 | REAR PLATE VIZIO VX32L HDTV | 1 |
| 19 | 1500-0507-0240 | POWER BD ASS'Y DPS-199APL-F | 1 |
| 20 | 3632-XXXX-XXXX | MAIN BD ASS'Y VX32L HDTV XXXX | 1 |
| 21 | 1712-0400-1920 | HEAT SINK(VX37L HDTV) | 1 |
| 22 | 1712-0100-4590 | HEAT SINK FIX WTEA(TM-30A) | 1 |
| 23 | 1712-0101-0820 | BRACKET FOR AC SOCKET(VX32L HDTV) | 1 |
| 24 | 0260-0000-0221 | AC INLET+VHPSD 1617#22 500mm 1015#18 100mm+TUBE | 1 |
| 25 | 1712-0101-0561 | MAIN SHIELD(VX32L HDTV)(OA) | 1 |
| 26 | 0335-1008-0160 | SPEAKER 10W 8ohm(126*56*55)+Wire 870/570mm(L,R) | 1 |
| 27 | 1947-1200-3900 | SPONGE(22.0L*55.0W*0.6) | 6 |
| 28 | 1720-3003-0820 | MAC.SCREW-MF M4.0*8.0L.NI | 2 |
| 29 | 1947-1800-0030 | GASKET BLOCK(10W*17H*60L) | 7 |
| 30 | 1720-0004-1650 | TAP.SCREW-TP #4.0*16.0L.BLK- NI | 14 |
| 31 | 0460-3430-XXXX | WH XXXXXXXXXXXXXXXX | 1 |
| 32 | 0460-1014-0161 | WH A2001 H02-14P/A2543H00-12P 1007#24 520mm | 1 |
| 33 | 1720-1204-0820 | MAC.SCREW-MPGW M4.0*8.0L.NI | 1 |
| 34 | 0460-1012-0260 | WH A2001H02-12P/A2001H02-12P 1061#26 150mm | 1 |
| 35 | 0460-3010-0180 | WH A1251H02-10P/A1251H02-10P 1571#28 350mm | 1 |
| 36 | 0460-4013-0070 | WH A2543H13P-PH13P 1007#24 350mm CORE | 1 |
| 37 | 0460-1004-0330 | WH PH4P-PH4P 1061#26 130mm LF | 1 |
| 38 | 1947-1900-0030 | HEATPAIH(25*14mm) | 1 |
| 39 | 1936-1100-9121 | B/C LBL VIZIO VX32L HDTV(OA) | 1 |
| 40 | 1701-1500-0690 | WIRE SADDLE(CH-14) | 2 |
| 41 | 1701-1500-0620 | SPACER SUPPORT(DCB-6.5) | 1 |
| 42 | 1720-1503-0820 | MAC.SCREW-MPSWF M3.0*6.0L.NI | 18 |
| 43 | 1720-1504-0820 | MAC.SCREW-MPSWF M4.0*8.0L.NI | 1 |
| 44 | 1721-0004-0820 | TAP.SCREW-TP#4.0*8.0L.NI | 15 |
| 45 | 1721-3003-0920 | TAP.SCREW-MF M3.0*9.0L.NI | 2 |
| 46 | 1721-4104-1220 | TAP.SCREW-TIF#4.0*12.0L.NI | 6 |
| 47 | 1720-0003-0620 | MAC.SCREW-MB M3.0*6.0L.NI | 20 |
| 48 | 1721-0003-0820 | TAP.SCREW-TB #3.0*8.0L.NI | 11 |
| 49 | 1720-7344-0820 | MAC.SCREW-MHSW #4-40*8.0L.NI | 2 |
| 50 | 1720-0004-1020 | MAC.SCREW-MB M4.0*10.0L.NI | 11 |

| | | | |
|----------------------------------|--|-------------------------------|--|
| VIZIO VX32L HDTV(OA) | | 8632-8600-7143/8632-8600-8033 | |
| DESCRIPTION | | PART NO. | |
| THIRD PARTY PROJECTION MODEL NO. | | VIZIO VX32L HDTV(OA)_AUTO | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | 32" CASE ASS'Y | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| VIZIO VX32L HDTV(OA)_SAMSUNG | | REV. 0 | |
| | | | |

1. REAR COVER ASS'Y REMOVAL

Note: Spread a mat underneath to avoid damaging the TV surface.

- 1) Remove eight screws ① from Base Ass'y ②.
- 2) Separate the Base Ass'y ②.
- 3) Remove seventeen screws ③ from rear cover.
- 4) Separate the rear cover.
- 5) Remove twelve screws ④ from Main shielding.
- 6) Remove seven screws ⑤, two screws ⑥, and two hexagon screws ⑦ from Main Shielding.
- 7) Separate the Main Shielding.
- 8) See detail "A", Remove the connector ⑧ (JC1) of the connector cable.
- 9) Remove four screws ⑨ and two screws ⑩.
- 10) Separate the Connector Bd Ass'y and sidejack cover.



2. POWER BD ASS'Y REMOVAL

- 1) Remove the connector ⑫ (CN2) ⑪ (CN4) of the inverter cable.
- 2) Remove the connector ⑬ (CN3) of the power cable.
- 3) Remove the connector ⑭ (CN1) of the power cable 1.
- 4) Remove four screws ⑮ from Power BD ASS'Y .
- 5) Separate the Power BD ASS'Y .

3. MAIN BD ASS'Y REMOVAL

- 1) Remove the connector ⑯ (J4) of the Connector cable.
- 2) Remove the connector ⑰ (J6) of the speaker cable.
- 3) Remove the connector ⑱ (J1) of the Power cable.
- 4) Remove the connector ⑲ (J7) of the LVDS cable.
- 5) Remove the connector ⑳ (J2) of the Display cable.
- 6) Remove two screws ㉑ from Heat sink.
- 7) Remove six screws ㉒ from MAIN BD .
- 8) Separate the MAIN BD .

